Which way next for the dollar, Page 14

NEWS SUMMARY

GENERAL

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Statistical Control

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Soviets reject Chinese approach bad debts

The new Soviet leadership has re-jected Chinese pleas for ending the deadlock in relations between the world's two foremost Communist

world's two forement Communist to set aside more than filbn powers.

Solviet leader Konstantin Chernendo has said that Moscow can make no agreement with China to the prejudice of the interests of thing countries.

His statement is an indication that Chinese demands on Kempuchea. Afghanistan, and border throops including those in Mongolia, will still not be accepted, and that the next round of Sino-Soviet consultations, which start next Monday in Moscow, can make only superfiin Moscow, can make only superfi-cial progress. Page 18

Ustinov in India

Soviet Defence Minister and Politburn heavyweight Marshal Dimitri Ustinov today starts his delayed visit to India, which Western diplo-mats, believe is intended to strengthen military and naval links.

Mitterrand's visit

French President François Mitterrand-pays another visit to London today in his effort in help break the deadlock over IEES finance.

French school protest

The Belgian National Bank conThe Archbishop of Paris. Cardinal tinued to give support through diJean Marie Constitues led a mass rect intervention, and also the raisprotest along the Argenie de Paris ing of some short-term interest rates.

However the franc remained public and private colors to its lowest permitted level against the D-Mark, and close to its porters said 600,600 parents and supporters said 600,600 parents and supporters said from Paris.

and butter mountains in the campaign for this summer's European Parhament elections. Page 3

Call for prosecution

Israeli Government hardiners are calling for the prosecution of moderate West Bank leaders who met ARGENTINE Government is con-Palestine Liberation Organisation leader Yassir Arafat, Page 2

Basque murdered

French police found the body of a Basque exile who had been beaten to death on a leuris court at Pau; near the Spanish border.

New South Wales poll New South Wates Premier Neville OCCIDENTAL PETROLEUM is Water called a soan election for paying \$333m to buy back some pre-March 24 in which the key issues ferred stock in a move to strength-with be allegations of corruption in en its balance sheet. Page 18 the static array and the police. Aus ducers estimate that they are losing the static sheet they are losing to the state wight.

an early national election. Page 2 Voia toli 'near 1,000'

an indication that there might

Government owned New Nigerian newspapers and that up to 1,000 people had been killed in a week of religious violence in the north-east city of Yolg where fighting was still raging. Triggs moved in on Friday seasont. Markey, fundamentalists against Moslem fundamentalists said to be using sopiristicated weapons. Page 2

Plumming the depths

British fruit scientists are trying to propagate trees, using tissue cul-ture techniques, from well pre-served plums found in the wreck of the raised warship Mary Rose, which is more than 400 years old.

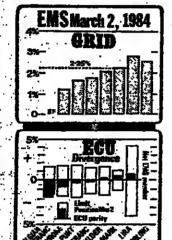
Highest pole vault

French pole vaulter Thierry Vigneron jumped a world's highest 5.85m (just over 15 ft 11%m) in the European indoor athletics champion ships in Gothenburg, but it cannot count as a world record because it hydroelectric project in Java. was indoors.

BUSINESS

UK banks set aside £1bn for

UK BANKS: The four biggest, Bar-clays, National Westminster, Mid-land and Lloyds, will probably have to set aside more than £1bn (\$1.49bn) to cover bad debts, at home and abroad, in 1983. Page 9



reflecting switching out of that curency in case of any possible week-

The Belgian National Bank con-

Ecu central rates

Circults placetors:

The chart shows the two constraints on European Monetary System exchange rates. The upper grid, based on the weakest currency in the system attacking havesberrels bombs. which no currency (except the lira) may move more than 24 per cent The lover chart gives each curren-cy's divergence from its "central rate" against the European Curren-cy Unit (ECU), itself a basket of Eu-

> sidering setting up a consultative body involving management and labour to help to secure the broadest support for its economic policies.

CHIEF EXECUTIVES in the U.S. are the highest paid in the world, but Swiss and West German companies pay their top level managers

more, according to a survey. Fage 3

£100m (5149m) a year in home sales to companies that buy cheaply in Europe and re-import. Page 9

RRITISH Government is expected to cut its grants to help to promote high-technology industries. Page 8 SHORT BROS, the Belfast aircraft maker, is likely to be helped back towards private ownership by the. U.S. Government's £115m order for

Sherpa transport aircraft. Page 8 BRAZIL is expected to resume ne-gotiations in Washington this week to try to reach agreement on a vo-luntary reduction of its steel exports to the U.S. Page 4

CABLE BELT, UK mining equipment company, is to build an over land conveyor system to take 2m tonnes of potash a year from the Dead Sea to the railhead near Nimona, Israel, in a contract worth about \$20m. Page 4

INDONESIA: How an Anglo-Swedish consortium, including Bal-four Beatty, succeeded in reviving a • The poorest have to be protected cancelled multi-million pound sacrifices must be evenly spread.

ATTACK MAY HAVE 'OMINOUS' SIGNIFICANCE FOR OIL SUPPLIES

Gulf tensions rise after Iraqi missile hits cargo ship

to Iran has been hit by an Iraqi mis- said. sile near the port of Bushehr, it was confirmed at the weekend by the ship's owners in Bombay.

The attack was of potentially ominous significance for oil supplies as it has previously threatened to because of the range at which it was keeping such a measure was carried out – some 200 miles (320 km) from the nearest Iraqi territory. Bushehr is to the south-east frequency. Bushehr is to the south-east frequency of Kharg Island, the main Iranian Iraqi attack on Kharg Island, the main Iranian Iraqi attack on Kharg Island, the main Iranian Iraqi attack on Kharg Island. erminal through which 90 per cent

Apeejay Lines, the owner, was quoted by Reuters as saying that the 16,000 dwt APJ Ambika had been hit as it sailed under Iranian naval escort from Bushehr last Thursday, All 35 crew appeared to bave been in the vicinity of Bandar

Hajoteslam Hashemi Rafsanjani, Speaker of the Iranian Parliament, said yesterday that Iran had no wish to close the Strait of Hormuz,

The attack no the Indian vessel was believed to be the first time Iraq had managed to hit a ship in this area - suggesting that it has the capability to interfere with oil traffic. Other confirmed strikes

with Mr Gemayel as soon as the

Lebanese president repealed the ac-

cord with Israel. This agreement,

reached on May 17 last year, pro-

vided for the withdrawal of foreign forces from Lebanon.

The Israelis have withdrawn to

the Awali river but continue to con-

trol south Lebanon. The Syrians

continue to control the North-east, Mr Jumblatt, leader of the mainly Druze Progressive Party, has still

not indicated whether he would

drop his demand for Mr Gemayel's

resignation and trial for "criminal

acts" against the Lebanese popula-

However before leaving Damas-cus for Beirut, Mr Salem said that

communities a bigger say in the

with the current political domi-

nance of the Christians, broke down

leader, told reporters at the week-

end that an important announce

Continued on Page 16

the talks were likely to

Syrian pact

with Shia

and Druze

BY NORA BOUSTANY IN BEIRUT

PRESIDENT HAFEZ Assad of Syr-

ia yesterday agreed with Lebanese opposition leaders Mr Nabih Berri

and Mr Walid Jumblatt a consitu-

tional mechanism for cancelling

Lebanon's troop withdrawal agree-

After a day of talks in Damascus with Mr Assad and Mr Elie Salem, Lebanese Foreign Minister, Mr

Berri, head of the Moslem Shia Am-

al movement, said: This agreement

provides for the declaration of an

abrogation by the Lebauese Presi-

dent, Amin Gemayel, and the Leba-nese Cabinet without the need for

The proposed agreement would be conveyed to President Gemayel

abrogation by the parliament."

sad in Damascus last week.

position leaders.

What was evident yesterday, af-

the rigid stands of the Lebanese op-

Mr Berri said he was ready to

join in national reconciliation talks

ment with Israel.

AN INDIAN cargo vessel no charter have been rescued, the company Khomeini, only about 80 miles from Basrah.

> Iraq's naval commander, Commodore Abed Mohammed Abdullah, according to previous dispatches was quoted by the official news agency in Badhdad as saying Iran's ports would be kept under an effective blockade by naval and air forces. He claimed that the Iraqi Navy could "reach any ship" which did not comply with earlier warnings to avoid the war zone at the northern end of the Gulf

Shipping companies "must realise this truth without venturing any more into trade with Iran because all they will reap will be definite losses," the commander said.
The conflict has been further inflamed by Iran's anger at what it

Gulf Oil

and Arco

bid terms

By William Hall in New York

THE BOARD of Gulf Oil Corpora-

pany, is expected to hold an emer-

The meeting follows mounting

ing to concede its independence in

return for a friendly takeover by

oil company with combined annual

explore

clearly believes to be the use of chemical weapons by Iraq.
In London the British Foreign Of-

fice rejected Tehran's charges that the UK had been supplying chemi-cal weapons to Baghdad as well as aircraft and tanks, as Iran has aleged. Patrick Blum writes from Vien-

na: Doctors said they were puzzled by the injuries to 10 wounded Iranians flown to Vienna last Friday. The symptoms could well be the result of some sort of gas or chemical weapons but we do not know for sure yet," one said. Symptoms include peeling skin,

respiratory difficulties, loss of blood and alterations in blood cells. Information is being sought from ex-perts and laboratories abroad in an

attempt to identify the exact cause of the injuries.

Kevin Done adds from Stock-holm: Swedish doctors treating five Iranians said their injuries could have been caused by chemical weapons. They arrived on Saturday suffering from severe burns.

• M Charles Hernu, French De

fence Minister, arrived in Kuwait yesterday for talks expected to be dominated by military co-operation, the Lebanese problem and the Iran-Iraq war, Reuters reported.

Kuwait, the closest Gulf Arab country to the frontlines of the 41month old Gulf war, has recently

Gulf shipping rates improve, Page 4

Florida may drop unitary tax scheme

BY NANCY DUNNE IN WEST PALM BEACH

tion, the fifth biggest U.S. oil comgency board meeting in Pittsburgh today to discuss what Wall Street analysts believe is the higgest corporate takeover offer in U.S. histo-

The panel defied a plea from Mr Bob Graham, the governor, for a de-lay to allow a commission appoint-ed by President Ronald Reagan to speculation that Gulf, which has been trying to fight off a dissident shareholder group led by Mr T. Boone Pickens of Texas, is preparmake its report. The panel's recommendation will now be considered by the state legislature in April.

the Los Angeles-hased Atlantic Richfield Company (Arco). President Reagan's commission A combination of Gulf and Arco was set up in response to strong pressure from Western Europe and would create a massive new world Japan to abolish the tax, which they feel unfairly penalises multination-al companies. Twelve U.S. states impose the tax, the most important revenues of \$54.8hn, net income of \$2.5hn, and worldwide oil and natural gas liquids production of

round 1.3m barrels a day.

For the last six months, Gulf, one of which is California
Florida's decision however, will
be closely watched by UK companies, which account for 40 per cent of the famous "seven sisters" which once dominated the world oil indusof the state's foreign investment. try, has been fighting to remain in-Mr Robert Lanzillotti, chairman dependent as a group of sharehold-ers led by Mr Pickens have focused of the panel and dean of the Uni-

attention on the group's poor finanversity of Florida's graduate school of business administration, said the cial performance and disappointing panel had based its recommendations on the damage the tax has As the behind the scenes battle done to the state's business image. for control of Gulf has mounted. Gulf's share price has risen from Under unitary tax legislation, corporations are taxed on their world-Continued on Page 16 wide earnings.

"We were, in the panel's view, putting at risk an enormous amount of capital investment," Mr Lanzillotti said.

The group recommended differ-

most recently introduced unitary such as lifting an exemption from taxation, may be the next to abanstate sales tax for computer softdon it. A panel appointed by the
ware and increasing the annual state governor to study the tax bas recommended unanimously that it be dropped. fees paid for filing company re-ports. Mr Lanzillotti suggested that the panel's report would receive strong support from the state's business community.

Florida officials have received hundreds of letters from enraged corporations about unitary tax IBM recently sold land it owned in the state on which it had intended to expand operations. It also disposed of land in Nehraska, a state which is considering introducing

unitary taxation. Florida is traditionally an agricul-tural and tourism state, but has aggressively pursued a strategy of diversification over the last five years seven metres in diameter, bored in which international trade has about 40 metres under the seabed. played a leading role.

Officials have attempted to con-

cost labour in Latin America. The unitary tax law, passed with little advance warning last summer to finance the state's new education programme, has overturned those plans. Multinational and foreign

Only neighbouring Georgia, which bas sought to lure away dis-enchanted Florida husiness, has benefited from the move.

FLORIDA, the U.S. state which ent methods of raising revenue

parters in the state where they could be near plants using low-

husinesses have threatened to curtail activities in the state or even to move out.

UK groups unite in channel tunnel campaign

By Richard Johns In London

FTVE leading UK construction companies have joined forces to cam-paign for a twin single-track rail-Channel with roll-on, roll-off facilities for vehicles.

Balfour Beatty, Costain, Tarmac, Taylor Woodrow and Wimpey were been seeking to increase its defence previously divided into separate capabilities. ests), but they have now united to form the Channel Tunnel Group (CTG), which aims to put stronger pressure on the British Govern-ment to approve what the construction industry regards as a vital pro-

ject.
The start-up cost is put at £I.9bn (\$2.8bn) – at 1983 prices – but actual expenditure could amount to £4bn to £5bn. The group would not neces-sarily hid collectively for the UK balf of the work, which is likely to be put out on a selected tender ba-

The British and French governments are awaiting finalisation of a study on the financing and owner-ship of the project, which is being undertaken by the Midland Bank, the National Westminster Bank, Banque Indosuez, Banque National de Paris and Credit Lyonnais, It is expected to be completed by the end of this month

In 1980, the British Government said that the UK involvement would have to be financed by the private sector. It will not offer any state guarantee or public funds.

At the weekend, a spokesman for CTG said that "it represents a noteable first in the construction industry for five companies of this stature to act as one in support of a specific project." They have a com-bined turnover of about £4.3hn. It is estimated that the construc

tion period for the proposed project would be six years. It involves two tunnels, each

erate at five-minute intervals with a vince corporations to locate their capacity to carry 3,600 cars an hour in either direction Journey time for the ferry trains

has been calculated at 25 minutes. Rail passengers from London would be able to reach Paris in four and a half hours. CTG is campaigning for the more

modest of two proposals made for linking the UK and France. The EuroRoute proposed by Mr lan McGregor - now the chairman of Britain's National Coal Board when he was the British Steel Corporation's chief, would cost about twice as much.

Martens seeks new austerity measures

by Mr Salem and Mr Jean Obeid, Lebanese national reconciliation Mr Gemayel's special envoy to talks would resume in Switzerland Damascus, Mr Berri said. The two next week. Opposition sources said

whether the formula agreed with the Lebanese opposition leaders had been cleared by Mr Gemayel

The talks, aimed at giving Leba-non's Moslem and other minority communities a bigger say in the

during his talks with President As-running of the country compared

ter the flurry of meetings in the late last year.

Syrian capital, was that President Mr Suleiman Franjieh, a former

Assad had succeeded in softening Lebanese president and a Christian

It was still unclear last night Thursday or Friday.

BY OUR BRUSSELS STAFF

MR WILFRIED Martens, Belgium's wings of both the majority Chris-Prime Minister, called his senior tian Democrats and the Liberals ty programme designed to trim the end of 1986.

Government's financial deficit of BFr 507bn (\$3.62bn) by DFr 507

over the next three years. The aim of the two-day negotiation was to create a series of econ-scheduled for the and of 1985. omies which can be enacted by the use of the Government's special able the Government to act by decree on economic matters.

The results of the talks will be

presented to the full Belgian Cabinet, probably today.

Early settlement of the principles vealed that the coalition had only restricted room for manoeuvre:

not be affected, implying no increases in company taxation;

ministers into secret session at the agreed however, that the austerity

package, they will present a united front at the next general election, But the Liberals have been press ing unwilling Christian Democrats powers before they expire at the to accept economies solely on the

end of the month. The powers en- side of expenditure, leaving the existing tax structure alone. It bas seemed clear, however, that the coalition will not be able to hold the deficit down -- it needs nearly 12 per cent of Belgium's Gross National Product (GNP) to finance - without to be adopted on the economies re- raising social security contributions and selectively trimming benefits. To hold the coalition together, the

 Corporate competitiveness must parties may also be forced to agree a truce on Flanders-Wallonia com-munal rivalry, as it is manifest in ● Economies have to leave room language disputes, especially on the for a growth in employment – 14.7 linguistic border, which effectively per cent of the working population divides Belgium in two. Settlement of the budgetary and

communal questions are seen in by the social security system and Brussels as essential to stabilise the Belgian franc on the exchanges The ministers of four parties - and act as a trigger to new private-the Flemish and French-speaking sector investment.

domestic borrowing 18 Survey Section III

Protest on Japanese typewriters

nies such as Olivetti, Olympia, Triumph-Adler and Ericsson.

oil exploratino results.

tronic typewriters.

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By Alan Friedman in Milan and

World oil consumption set to

rise, Page 3; International

credits, Page 17 Occidental buys back shares, Page 18

EUROPE'S major typewriter manufacturers have filed an application before the European Commission to stop "unfair dumping practices" by several Japanese producers of elec-

Olivetti, the leading office auto-mation group, said on Friday that the Committee of European Type-writer Manufacturers (Cetma) had filed an application for the initia-tion of a proceeding against Japa-nese producers who bad violated the General Agreement on Tariffs and Trade (Gatt) rules.

The committee includes compa-

Although Olivetti provided no specific allegations of dumping practices, it said that "by building up high production capacity and by price under-cutting, at present approximately 10 Japanese producers are trying to gain a dominant position in the European electronic ty-pewriter market."

Olivetti said at the weekend that while the European industry wel-

Continued on Page 16

All this and a refreshingly candid approach to doing business, isn't it about time you gave ANZ a closer look?

European office in Frankfurt.

SINGAPORE

We gave up beating

about the bush years ago.

In fact ANZ have been an established name in the City for nearly

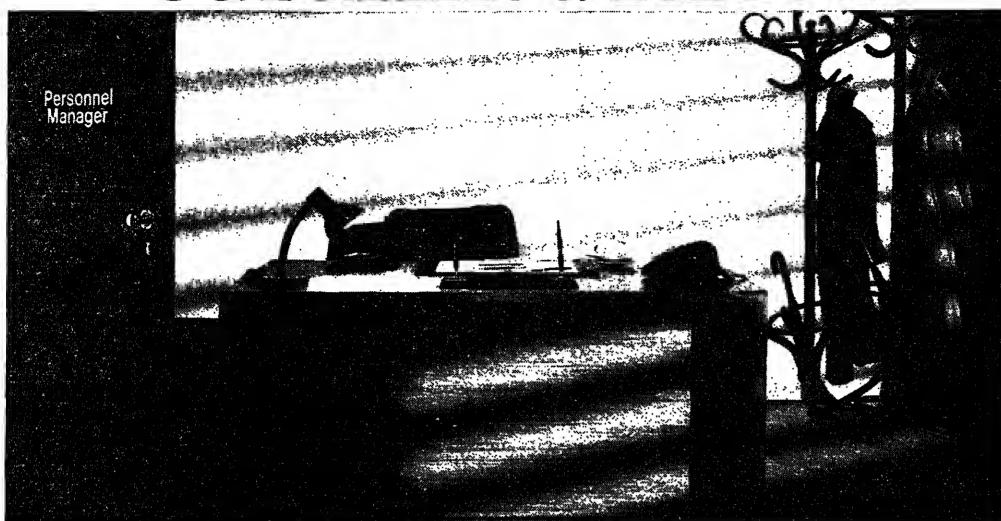
150 years, during which time we've gone from strength to strength to

become a major source of corporate and institutional financing and a recognised specialist in all facets of foreign currency exchange.

Today we're still on the move. Already we've expanded our

strength on the ground and our service facilities to include a new

Interbank Dealers 01-623 9123 Telex 887111/2/3 Corporate Dealers 01-621 1275 Australasian Dealers 01-621 1-175 Telex 885441 Sterling Money Market Dealers 01-626 5506 & 5508 Corporate Business 01-280 3210/3315



Those responsible for the workforce of this country have the power to pluck out one in every five of the mobilised strength of our Armed Services.

Because one in every five are volunteers in the Reserves.

An essential part of our country's defence whether it be the Territorial Army, the Royal Naval or the Royal Marines Reserve, or the Royal Auxiliary Air Force.

The volunteers that make up the Territorial Army for example, form 30% of the Army's mobilised strength, by the end of the decade they will contribute even more.

It's the job of the TA to provide support for The British Army of the Rhine in Western Europe and to reinforce the Regular Army's defence role in this country.

To make this possible, they have to be able to handle themselves and their weapons to a standard only a full-time

Regular could better.

But reaching this standard isn't something that can be done in a few odd hours here and there.

It means giving up spare time, working evenings and some weekends.

And sometimes it conflicts with the hours they're asked to put in at work.

Fortunately, many firms are prepared to support them.

Some actively encourage their employees to join.

After all, what better place is there to develop initiative, self discipline and

Personal skills that can be put to good use solving day to day problems at work, whether that be the smallest village corner shop or a giant multinational company.

There are other advantages, not just for the individual and the firm he works for, but for the tax payer too. Particularly when you consider that the

Territorials only represent 4.4% of the Army's annual budget.

In a few months time, 40,000 reservists from the Territorial Army will be travelling to Germany for exercise 'Lionheart.'

A holiday it won't be.

'Lionheart' is a very important NATO exercise where the Territorials' skills, wits and determination will be pushed right to the limit.

Helping them become an even stronger and more powerful force for peace. Unless their firms say otherwise.

I am interested in finding out how our company can help the Territorial Army Please send me a copy of "An Employers Guide to the TA." Complete the coupon and send it to Major John Oldfield, (Dept FTI). Duke of York's HQ, Centre Block, Chelsea, London SW 3 4SG, or contact your nearest T.A.V.R. Association (in the phone book under 'Army').
NameName
Aller

The Territorials

OVERSEAS NEWS

Call to prosecute West Bank leaders who met Arafat

tion organisation (PLO) chairman, to voice their support for peace negotiations between peace negotiation Jordan and Israel.

Prime Minister, aware that such Prime Minister, aware that such a move would trigger international uproar, is reported to be resisting the pressure but has yet to make a public statement. The issue's sensitivity was shown yesterday when the Cabinet discussed tha matter. To assure there were no leaks, it convened as the Ministerial Defence Committee, whose deliberations are barred by law from publication.

from publication.

A Cabinet statement asserted the delegation had violated military law in the Israeli-occupied West Bank, which proscribes contact with the PLO. "Instructions were issued in accordance with government policy," it added, but did not disclose what these were.

The delegation of 38 moderates, among them Mr Elias

HARDLINERS in the Israeli Freif, Bethlehem's Mayor, met Government want to prosecute a Mr Arafat in Amman last week, delegation of moderate West Some of them said they had Bank leaders who met Mr Yasir urged the PLO chief to give Arafat, the Palestine Libera- King Hussein a mandate to

Jordan and Israel.

Mr Yitzhak Shamir, Israel's king to begin a peace dialogue, Prime Minister, aware that such move would trigger international uproar, is reported to be

The Cabinet also discussed the Lebanon situation but no new stepa were disclosed. Eleven Israeli soldiers were ne South Lebanese port of Sidon yesterday, the army said, It also announced that last Friday. Israeli soldiers shot dead two motorists south of Sidon. The army said the two men tried to fice after ignoring a warning to identify themselves.

Up to 1,000' killed in Nigeria violence

north-eastern Nigerian city of Yola, where fighting is still raging, the government-owned New Nigerian newspaper said

Hospital officials gave a figure of 250. A government official said on Wednesday that 137 people died in the disturbances, which began last Monday.

The newspaper said about 500 bodies had been removed from the Yola hospital for mass burial. The News Agency of Nigeria said 100 hodies were buried in a mass grave on Tuesday. Troops moved in ou Friday to quell fighting by Mostem fundamentalists who had

regrouped and were using spokesman said. The religious violence, the country's third outbreak in just over three years, was started by followers of the Moslem fundamentalist

leader, Muhammadu Marwa Maitatsine, police said. He was killed in rioting in the northern city of Kano three years ago. An official report said more than 4,000 people died in these riots, which were suppressed

streets of Yola were littered with bodies of suspected Moslem fanatics lynched by mobs. Many people had been killed in cross-fire when they emerged from the rioters'

Hundreds of men, women and children who fled their homes were camped in refugee sheds in police and army barracks as well as an open field in one of the city's

Snan election called in New South Wales

By Michael The in Sydney

MR NEVILLE WRAN, Labor premier of New South Wales, yesterday called a snap state election for March 24, in which the key issue will be allegations of widespread corruption in judiciary and police.

At the same time, Mr Bob Hawke, the Australian Prime Minister, gave the strongest possible hint that he would call an early general election, probably

The Hawke government in Canberra has ruled for exactly one year. In New South Wates, Mr Wran—who is president of the Australian Labor Party claims that the state govern-ment has been "hounded" by an orchestrated opposition a challenge of the Liberal and National parties, which would need to win 22 seats in the 98

Mr Nick Greiner, leader of the state Liberal Party, said Mr. Wran was pushing a "panic button" by calling an election months, early. In recent weeks, the Liberals have pro-

Of the prospect of an early general election, Mr Hawke said yesterday that a half-Senate election must be held by May 1985, and that it made sense to hold a House of Representatives election at the same time, as had happened 22 times in the

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hen Korean Air Lines designed its new Prestige business class it used First Class on other airlines as its minimum standard.

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wonderfully agreeable to make economies this way. Prestige Class. The last word in first class comfort for business people.

Four flights weekly to Seoul: Direct from Paris every Thursday and Saturday at 13h00. Via Jeddah and Bahrain from Zurich every Wednesday and Sunday at 12h20.



OREAN AIR LINES We're honoured to serve you around the work

Ha Mi

OVERSEAS NEWS

Half a million march as protest grows over French schools

BY PAUL BETTS IN PARIS.

hiehem's Mayor, as in Amman last set them said they be PLO chief to be seein a mandal to see negotiations we

rell Government by tedly called on to gin a peace dialog el Sharron. Minus errifolio, who is a critical of the eadership, and who a callership, and who a callership with the first time as the first time as the territory by meet publicly with the binet also.

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trated opposition npaien allegag el gruptien. a strong lead in l should withstands of the Liberal s parties, which W. in 22 seats in the paritament to the Greiner, leader af ora! Party, sail!

by calling an eleme his early. In the re Liberals have p

icerien. Mr Hawlest that a half-sen thirt it made seast

and police. same time. Ur hi

MORE THAN half a million parents priests and political leaders of the right marched

leaders of the right marched down the imposing Arenne de Paris leading to the palace of Versailles yesterday is protest against the left-ring Government's plans to integrate private and public education.

The march was the climax to a series of demonstrations in the past week in support of private education in France. Parents opposed to the Government's plans to integrate cathods in the state system launched their protest in Bordeaux with a mass tharch: system launched their protest in Bordeaux with a mass march; then they moved to Lyon and Rennes and, to the surprise and shock of the left, more than 200.000 demonstrated in Lille, the political flee of M Plerre Mauroy, the Socialist Prime Minister.

The organisers claimed more than 600,000 people at yester-day's protest. For many it was probably their first time demonstration and perhaps the last. One banner reminded President Mitterrand that he had

heen a private school pupil.

Faced with the growing protest against their plans the Socialists, through their party secretary. M Lionei Jospin, have indicated that the Govern-

President Mitterrand flies to Britain today for talks with Mrs Thatcher aimed at break-ing the deadlock over the EEC budget, Our Paris Staff writes. His visit follows a series of talks with other EEC leaders to work out a compremise. France says that progress has been made on some important points but the preblem of Britain's budgetary contribution remains unsolved. M Mitterrand wants to resolve the crisis before the summit of community leaders in Brussels at the end of this

But in spite of increasingly conciliatory noises from the Government in recent weeks. the supporters of the private system suspect that the left (especially the militants of the largely pro-Socialist teachers' union) is seeing to integrate the private schools in a back-

door manner.
Among their objections is the proposal to absorb private school teachers in state service by giving them the status of public employees. The Archbishop of Paris led

ment would adopt a flexible approach to the explosive problem. The feeling is that the Left is gradually backing down from its electoral promise of three years; ago of creating a matted lay public school how to educate their children.

Alp passes to be watched

BY JAMES BUXTON IN ROME

Austria are to set up a joint to speed np horder crossings by commission to monitor the road and rail, now that Italy problems of horder crossings at has decided on measures to the Alpine passes. make customs procedures a

The decision followed a meeting in Rome at the weekend between Sig-Elizable Signorile, the Italian Transport Minister, and Herr Werner Bellinger, his West German counterpart, who was supported by his colleague from the regional government of Bayaria.

ITALY, West Germany and the commission which will aim make customs procedures a little less burdensome.

22 EEC transport ministers meet in Brussels in the hope of agreeing further reductions in The Austrian Gozenment agreeing further reductions in said later it would take part in European customs procedures.

Argentina considers 'social contract'

ARGENTINA'S Radical Govern ment is considering setting up permanent consultative body involving both sides of industry in a move aimed at securing the broadest support possible for its economic policies, Jimmy Burns reports from Buenos Aires.

In a letter to leaders of the main trades union organisations, the General Confedera-tion of Labour (CGT). Presi-dent Raul Alfonsin alluded to what could eventually become a formal "social contract" to help the Government imple-

ment a more effective prices and incomes policy.

The initiative coincides with signs of a combination of un-controlled price rises and mounting pressure for substanwage increases, under-ng the Government's attempt to reduce the country's 433 per: cent inflation to twodigit figures by the end of the

Nicaragua warning

SR TOMAS BORGE, Nicar-agua's Interior Minister, warned over the weekend that U.S.-backed counter-revolutionary groups will step up their attacks, against economie targets In the country in the coming weeks, Tim Coone reports from

Canada leadership

successor to Mr Pierre Trudeau, Canada's Prime Minis-ter, is to be chosen at a Liberal Party leadership convention to be held in Ottawa from June 14 to 17, Nicholas Hirst reports

The party's national executive chose the date and place for the convention late on Saturday, following Mr Trudeau's decision earlier in the week to step down as soon as a new leader was

Marc Rich case move

A U.S. federal judge bas thrown out a defence request for a wide-ranging "gag" order which tion about the pending trial in-volving the Swiss-based Marc Rich commodity group, on charges including alleged evasion of \$48m (£34m) in U.S. taxes, Paul Taylor reports from

Kyowa, one of Japan's leading commercial banks, confronts the new financial era with Vision, Vigor and Vitality. Plus 237 domestic branches, a growing emphasis on international operations and expanded electronic banking services. in Japan and overseas, we're prepared to. serve our clients with a capital V. XXYOWA BANK



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Swedes to focus on research

BY KEVIN DONE, NORDIC CORRESPONDENT, IN STOCKHOLM

and development despite cutbacks 92hn. in other parts of state expenditure national research effort.

Research and development is to be exempted from the general government order to state departments

(\$19.3m) a year is to be pumped into to begin talks soon with industry to the state research effort over the try to increase the private sector's next three years in new resources. over and above protecting existing

on financial indicators in In-

thinking. At the same time.

however, individual executives

claim overwhelmingly that they

themselves achieve a correct

the European election campaign

a Europe "of bureancrate bombs and butter mountains."

But a special two-day national

BY RUPERT CORNWELL IN BONN

party yesterday overwhelmingly in Bonn, backed a radical platform for The p

BY OUR NEW YORK CORRESPONDENT

lieved that the emphasis placed Conference Board, a company-

dustry forces companies to which U.S. corporations focus too closely on short-term measure their performance. The

congress in Kalsruhe post- Euro MPs to surrender their

balance between the short and term view of financial results. dent.

THE SWEDISH Government is in- 1983-84 fiscal year, of which the and research institutions into concreasing its spending on research state will account for some SKr sultants for industry.

al product (GNP), a level of research spending rivalled only by a handful of industrialised countries. The increased state spending is to cut spending by 2 per cent across being directed in particular towards formation technology, materials basic research, and Mr Ingvar In addition, an extra SKr 150m Carlsson, Deputy Prime Minister, is

> involvement in basic research. He has rejected warnings, from

Companies 'focus on short term'

spoosored ecocomic analysis organisation, on the way in

study follows extensive con-troversy in the U.S. on the

this summer, which condemned 41-year-old independent, to head Green national MPs—a split a Europe "of bureancrats, its list for the campaign for the which goes close to the beart

most important decision taken

this weekend calls for all Green

Strasbourg parliament. But the of the party's divisions.

We have high hopes for the re-The total R&D effort amounts to search institutions, possible contriindustry and to stimulate the Swedish economy," said Mr Carlsson. Four areas have been given prior-

technology, biotechnology and environment protection. Research funds channelled

through the Industry Department SKr 2.1bn over the next three years - will be devoted the these areas expenditure against inflation.

Total spending on research and development in Swedeo is expected to be around SKr 18bo in the substitution of the Swedish research in state-to be around SKr 18bo in the substitution of the Swedish research plus engineering and production technology, pulp, paper and forest-to be around SKr 18bo in the substitution of the Swedish research plus engineering and production technology, pulp, paper and forest-to be around SKr 18bo in the substitution of the Swedish research plus engineering and production technology, pulp, paper and forest-to be around SKr 18bo in the substitution of the Swedish research plus engineering and production technology, pulp, paper and forest-to be around SKr 18bo in the substitution of the Swedish research plus engineering and production technology, pulp, paper and forest-to be around SKr 18bo in the substitution of the Swedish research plus engineering and production technology.

the media for the emphasis on

the financial community for

quarterly earnings is severely

damaging most companies' view

Moderates, who have success

"The pressures applied by

short-term analysis.

As a relatively small country - it accounts for 1 to 2 per cent of total world R&D spending - Sweden is also taking steps to improve its and is setting new priorities for the around 2.5 per cent of gross nation- butions to the renewal of Swedish access to the international exchange of research knowledge.

Increased resources are to be provided to the technical and scientific ity for the state research effort in- attaches at Swedish embassies around the world. In addition, an urgent study is to be made of ways to give foreign researchers favourable income tax treatment in order to attract more foreign experts

that the country's income tax rates, the bighest in the world, have been a major obstacle for Swedish companies trying to attract top-flight re-search and development workers.

U.S. chief executives

ABOUT HALF of a representa-the long term. In the responses, mainly from tive sample of the leading. These conclusions are part chief executives, companies businessment in the IIS has of a new survey conducted by the placed heavy responsibility on By Terry Dodsworth in New York WHILE CHIEF executives in the U.S. are by far the best paid in the world, both Swiss and West German companies pay their top level of managers more, according to the latert Fortune Magazine survey of

'highest paid'

question of whether Japanese as to what the critical measure indostry is gaining a technoof performance should be," said logical lead by taking a longer one petroleum company presiexecutives come French fourth in the payments league, expressed in dollar equivalents, followed by Canadian and Brazilian managers. UK companies pay only the ninth highest salaries at \$58,800 for Greens adopt radical Strasbourg platform middle although in net after-tax terms, British executives emerge as THE WEST German Greens mentary party in the Bundestag approved the move by 437 votes The party has chosen Herr poposition is a sign of the split Friedrich Wilhelm Graefe, a over adopting a similar rule for 41-year-old independent to the split over adopting a similar rule for

seventh in the league. Becaose of the recent strength of the dollar, U.S. salaries look even more prepossessing at present, says the survey, which gives average annual pre-tax compensation for American upper middle managers as \$112,000 (£75,000) in 1983

fully piloted the party into an At the same time, senior U.S. executives beoefit much more poned a debate of the crisis seats to someone else half-wiy alliance with the Social Demo-which is gripping the chaotic through their five-year term. crats in the state of Hesse, and splintered Greens parlia
The Karlsruhe congress only broadly oppose the move. than their peers overseas from

Industrial world 'consuming more oil'

By Richard Johns In London

OIL CONSUMPTION in the industrialised world could rise by 5.7 per cent in the first quarter of 1984, according to estimates of the Interna-tional Energy Agency.

The projected increase is attributed largely to the U.S. and Canada. Provisional data published by the IEA in its latest monthly market as-sessment indicate that North American consumption will be up 12 per cent above the 1983 level because o a recovery in economic activity and a colder than normal winter.

It looks as if it will be 7 per cent up in the Pacific region. But a decrease of 3 per cent is estimated for

Europe.
World oil supply is reckoned by
the IEA to have fallen from the 1983 peak of 46.5m barrels a day recorded last October and November to 45.5m b/d in January and February, with members of the Organisa tioo of Petroleum Exporting Coun-

tries (Opec) suffering nearly all of the decline. Opec crude oil output for the first quarter of 1984 is put at 17.9m b/d (plus lm b/d of oatural gas bouids), compared with 18.9m b/d in the last quarter of 1983 and an average for

the whole of last year of 17.5m b/d. Stocks on land in member states of the Organisation for Economic Co-operation and Development were drawn down at the rate of 800,000 h/d in the last three months of 1983, and the rate in the first three mooths of 1984 looks as though it will be 1.5m b/d.

Frogman hunt

Swedish soldiers were using tracker dogs in a hunt for frogmen, suspected of coming from a foreign submarine, seen oear the Karlskrona naval base.

uncertain climate

A sustained growth in company dividends is a cheerful sight for any investor At Sun Life, dividends grew by 20% p.a. compound in the ten years from 1973 to 1982.*

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Sun Life: 10 years of growth*

Dividends up 20% p.a. compound since start of 1973.

Total group funds up from £489 million to £2.2 billion.

Total premium income up from £68 million to £272 million.

In top 100 UK companies by stock market value.

*Based on the latest audited results.

For more information about one of the country's most successful life offices, contact:-W.J. Amos, Sun Life Assurance Society plc, 107 Cheapside, London EC2V 6DU. Telephone: 01-606 7788.

A major force in British Life

By Andrew Whitley in Rio de Janeiro

RRAZII. IS expected to return to the negotiating table in Washington this week in a second attempt to reach agree-ment with the U.S. on e voluntary reduction of its steel exports to the American

The Brazilians are under tion and judicious use of the carrot and stick can achieve. pressure to reach agreement before next Friday, when temporary import surcharges of between 53 per cent and 100 per cent on heavy steel plate are due to come into permanent

A senior Industry and Commerce Ministry official warne last week however that Brazil may be forced to abandon the negotiations which opened in mid-February and were suspended e few days later, if the U.S. persisted in offering only e low quota for Brazil's important flat steel products. Sr Marcos Jose Marques, who headed the delegation in the first round of talks, said that beyond a certain point, it would not make sense for Brazil to reach an accord. "If we reach a poor agreement this will set

he said. Brazilian steel exports to the EEC are also coming Privetely, Brazilian officials are saying that an impediment in the way of a steel pact with the U.S. is a row said to be going on between the U.S. Com-merce Department and the Special Trade Representative's office over how generous the U.S. can afford to be with

precedent for other agreements we shall eventually have

to make with other countries."

THE BRAZUIAN Aviation placed an order worth £1.4m for Ministry has signed a FFr 400m new Instrument Landing They also believe that U.S. election considerations are hindering the chances of reaching agreement. Brazil'e opening position in last month's talks was to seek a ceiling between last year's exports of 900,000 electronics and defence group, for the installation of the next tonnes and the anticipated 1984 range radar stations covering the North and North-east of the figure of 1.2m tonnes. country, as well as the training of personnel and installa-

© Cosipa, Brazil's leading steel producer and exporter, which last month suspended its exports to the U.S. following tion of control centres. It represents a continuation of the imposition of import surcharges on its plate, estimated its losses from a three-day strike over pay which ended on Thursday at \$8.3m. work begun in 1972 by the CSF is believed to have been French company.

Michael Donne adds: The UK only the French system that met

How the carrot and the stick saved a £240m project

AFTER TEN months of anguished negotiations, an Anglo - Swedish consortium which includes Britain's Balfour Beatty has finally sealed a deal with the Indonesian Government to save the cancelled multi-million pound Mrica hydroelectric project in central Java.

"I feel a bit shell-shocked." so formed a joint venture called patience and brinkmanship followed, as the consortium tried carrot and stick to retain lts business while Indonesia tried to get better terms. At various key moments Mr Norman Lamont, UK Trade and Sweco of Sweden and Boving of the UK were to do electrical and mechanical work. The project involves the adaptation of an original Soviet design for the scheme by Sweco of Sweden and Engineer. At various key moments Mr Norman Lamont, UK Trade and Industry Minister, senior Trade Department officials and personnel from the Export Credits Guarantee Department travelsaid a banker after a final exchange of letters at the week-

by the Indonesian Government six months later. The cancellation was part of a rephasing of some four dozen large capital intensive projects following the drop in world oil prices. Indonesia, Asia's largest oil and gas exporter, faced a debt crisis. Sabcon enlisted the support of the UK and Swedish Work on the 180Mw project, worth £240m, is to resume as soon as possible. Contractors for the civil works are Balfour Beatty—part of the BICC group—and Skanska of Sweden, who Governments to try to save the project, where 2,000 men were was in place.

Noman Lamont, UK Trade and islands. But the more importindustry Minister, senior Trade and question was cost.

Department officials and personnel from the Export Credits
Guarantee Department travelled to Jakarta. Sweden sent The key changes in the contract
similar people, and the large relate to timing, which affects teams of negotiators slowly but the financing. The contract was inerorably pushed the matter to a conclusion.

The first official confirmation of a breakthrough was in Presi-

of a breakthrough was in Presi- and was reckoned then to be dent Suharto's January budget worth close to £300m. speech, but nobody could have guessed that the last phase, involving the Indonesian State Electricity Company, and the Bilectricity Company, and the side, is giving ECGD-backed Ministry of Finance, would be buyer credits worth £127m to

of seems, was the project's viabi- This

tried carrot and stick to retain Mrica is one of many projects its business while Indonesia aimed at fully electrifying the villages of Java, one of the Norman Lamont, UK Trade and islands. But the more import-

At the beart of the issue, it single loans ever in the region.

and brinkmanship as the consortium of and stick to retain dess while Indonesia is one of many projects almed at fully electrifying the get better terms.

The consortium of the consortium of the construct of the The most difficult aspect of the talks concerned the terms

of the export credits under the amended deal. In the end the interest rate was kept unchanged at 72 per cent, but the repayment period was stretched to 13 years from the time of

work will at last resume, to the relief of all.

The early resumption is important because of the weather at this time of year. It is drier and river diversions can be tackled more easily. At the end

of the negotiations, every day
was starting to count.
"It's been a good example
of industry, governments,
embassies and bankers working
as go team in a multipational to 13 years from the time of completion, up from 10 years.

With the parties also agreeing to add two years to the original five-year period of construction, this amounts to a very attractive deal for Indonesia. Even so, a last-minute hold-up appeared to occur last finally went through.

Congress to confer on export control Bills

By Nancy Dunne

A JOINT Congressional com-A JOINT Congressional committee is expected to start work this week on resolving the differences in U.S. export control legislation. A Senate Bill which differs in many ways from what the White House wants was passed late last week. Of particular concern to the U.S.'s trading partners will be the final form of the provision governing the President's authority to impose import controls. governing the President's authority to impose import controls. While the House rejected attempts to provide for such controls, the Senate approved them after a complicated compromise.

If the Senate version is accepted by the conference committee, the President could slap import controls on non-

committee, the Fresident could slap import controls on non-Gatt countries. For violations of national security he could impose them on individual companies, providing a majority of members of the CoCom (the Paris based body which vets militarily sensitive sales) agrees that multinational rules have been violated.

been violated.
On the controversial issue of the President's authority to impose extraterritorial controls, both Bills limit this power in foreign policy cases, but allow their imposition for reesons of

national security
Many disputes between hard-line anti-communists who want stiffer controls and business interests, which want reles relaxed remain to be resolved

The house bill would ease restrictions on East-West trade, but place restrictions on U.S. trade and investment in South Africa.

Gulf rates improve

CONTINUED tension in the Gulf last week pushed up rates 250,000 tons et Worldsrale 28. for large tankers, though the market in other oil-loading worldscale 20 for cargoes of this size.

Galbraith's reported that Shell set the pace by fixing an Ultra large Crude Carrier (ULCC) would actually be blocked, as for a 330,000 ton cargo from threatened by Iran if Iran were market in other oil-loading areas remained slack.
Galbraith's reported that Sheli set the pace by fixing an Ultra Large Crude Carrier (ULCC) for a 330,000-ton cargo from Kharg Island in Iran. "Subsequently," it said, "other charterers threw caution to the winds and enversed art. Kharg

SHIPPING REPORT

quently," it said, "other charterers threw caution to the winds and covered ex-Kharg at considerably improved figures."

The Shell deal was for eventual discharge in either the West or the East at Worldscale 22 or 23.5 respectively, with an option of 30 days' storage et \$13,000 a day. Other fixtures included n 230,000-ton cargo included n 230,000-ton cargo from Kharg Island to the West in the charterers into paying higher rates for oil shipped from Iran tast week's reported fixtures against only 11 the week before. On the dry cargo side, recent expansion of coal and iron ore summers but had little effect on rates, said Matheson (Chartering).

Hong Kong utility

HONG KONG Electric Holdings, the smaller of the territory's two power utilities, says it does not want to participate in a nuclear power station planned in the Guangdong province of China, Robert Cotrell writes from Hong Kong.

Mr Paul Channon, Britain's

out of China project

Trade Minister, said in Heng-kong last week that he expects: General Electric Company of Britain to win a major contract in the project. GEC must hid by March 15.

UK company wins Dead Sea deal

sustained display

end. "They are tough nego-tiators." The story of the saving

of the project is e good example of what international co-opera-

CABLE BELT, the British point on the earth's surface, mining equipment company, is to deliver 2m tonnes of potash to build an overland conveyor for carrying potash from Dimona. At present, the Dead Sea through the wildest part of Israel's to heul the potash up long Negev desert.

CABLE BELT, the British point on the earth's surface, midia. It specialises in an unconventional system, separating the carrying joh of the belt from the means of driving it. Competitive terms provided by the Export Credits Guarantee Department helped to win the Department helped to win the Israel's conventional system, separating the carrying joh of the belt from the means of driving it.

The Deed Sea Chemical
Works is understood to have
awarded the contract, thought
to be worth ebout \$20m, after
five years of negotiations with

(£33m) contract with Thomson-

CSF, the French state-owned

stage of its air traffic control

The contract involves long-

French radar success

BY OUR RIO DE LANEIRO CORRESPONDENT

Civil Aviation Authority has the UK's needs.

deep ravines and wadis and two five years of negotiations with five years of negotiations with rival British, Sonth African and U.S. concerns.

The 11-mile conveyor, said to be the longest in Asia, will climb 3,000 feet from the lowest

new Instrument Landing Systems with Thomson-CSF, rejecting a bid by Racal of the

UK. The five systems will be used in trials at several UK air-

fields — Heathrow, Stansted. Dunsfold, Bletchiey and Gat-

wick. If the trials are successful,

e further follow-on f4m order for systems for 12 airfields will

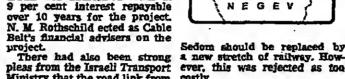
be placed. Part of the order is likely to be hullt in the UK.

the initial contrect to Thomson-

The CAA's decision to award

Cable Belt's conveyor will Israeli contract for Britain. The present severe engineering ECGD has authorised loans at problems since its route crosses 9 per cent interest repayable over 10 years for the project.
N. M. Rothschild ected as Cable Belt's financial advisers on the

pleas from the Israeli Transport Ministry that the road link from costly.



ISRAEL

Tariff aid for Nicaragua

BY TIM COONE IN MANAGUA

COLOMBIA has signed a trade agreement with Nicaragua giving preferential import tariff treatment to a list of 20 non-traditional Nicaraguan export products. Tariffs are to be reduced to a minimum or eliminated entirely and the agreement is likely to be the first of several to be arranged between Colombia and other Central American countries. Sr Rodrigo Marin Bernal, Colombia's Minister for Eco-nomic Development, said that

the agreement was aimed not

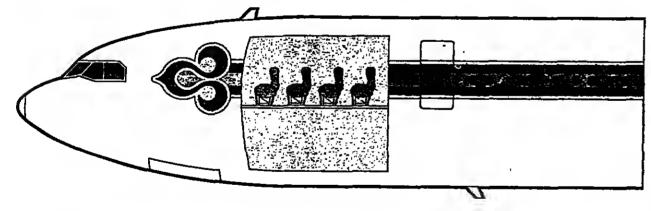
only at achieving a better trade balance between the two countries, but also be-cause it was recognised that to achieve peace in Central America it was necessary to follow policies that addressed the social and economic prob-

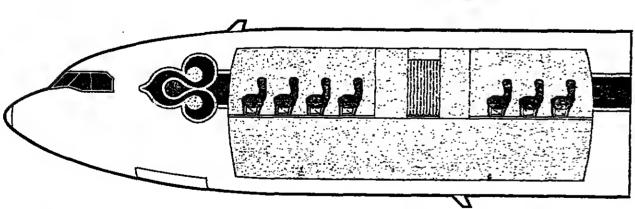
lems of the region.
Trade between Colombia
and Nicaragua has been
valued at between \$2m and \$13m over the past five years. The new tariff agreement will cover products such as chlorine, hydrochloric scid, cotton, pesticides and tobacco.

World Economic Indicators FOREIGN FYCHANGE DECENT

	, our old	(US\$m)	COLOR VILLE	
USA W. Germany	Dec. '83 6,289 37,326	Nov. '23 4,914	Oct. 183 4,952	Dec. 327
Japen U.K.	20,364 8,718	37,907 20,161 8,775	38,279 20,444 8,967	39,620 19,172 9,674
Italy Netherlands	18,525 8,702	18,335	17,753 2,730	12,610 8,662
Balgium France	3,776 Nov. '83 18,831	3,843 - Oct. 783 18,702	3,937 Sept. '83 18,637	2.824 Nov. T
Source: IMF	1 delants		10/931	11,454

Royal Executive Class. So popular, it's going backwards.





Class on all our Asian routes, in April '83, we thought we full Economy fare. had everything planned beautifully.

The seats had the longest legroom of any business

class (Most Asian airlines call them first class seats.) We introduced a choice of meals. Free spirits, wines

Free use of electronic headsets. Express check-in. Airport lounge facilities.

When we replaced first class with Royal Executive are too embarrassed to talk about. And all for just the

The only thing we didn't plan on was just how popular it would prove to be. In fact, Royal Executive Class has proven to be so

popular we've had to enlarge it. So now instead of 24 seats, Royal Executive atures 42 seats.

And everyone of them goes back further A standard of in-flight service that other airlines than any other business class seat in the world. Then



Operating Profit/(Loss) Profit/(Loss) before Taxation and Extraordinary Items Extraordinary Items
Profit/(Loss) Attributable to Ordinary Shareholders

Earnings/(Loss) Per Share Dividend Per Share

Group Restructuring has produced strong profit recovery:

Electronic Sales up 40% and Total Group Sales up 21%:

Group Debt Proffle transformed:

Continued expansion into high technology ctronic components and computer

Restoration of Dividend payment:

Highlights of the Year

Operating Profit increased to 8.7% of Sales.
 Pretax Profit of £20.9m compared with loss of £17.4m in 1982.
 Earnings Improvement by £36.4m to £17.4m.

£Million 282.0 24.5

(3.6)

Earnings Improvement by £36.4m to £17.4m

Head Office and fax residence successfully moved to Hong Kong. Dividends from overseas subsidiaries to parent company no longer taxable.

Audio losses drastically reduced and profits projected for 1984.

UK/Europe group activeved operating profits.

40 companies, worthwide, identified forsale, closure or liquidation. Extraordinary write-offs relating to actual or planned closures mark the end of the major rationalisation programme.

Astec and Capetronic maintained strong growth in turnover and profits.

Swan Housewares achieved increased market share and sales although margins remained low.

BS8. (Large) expended marketing activities and use bishty construction in the latest and the latest activities and latest bishty activities and use bishty construction.

remained low.

BSR (Japan) expanded marketing activities and was highly successful in both Japanese domestic and worldwide U.S. mititary markets.

X-10 marketing strategy changed end inventories reduced to more acceptable levels.

Successful Rights issue and placement of new shares in April raised £24.2m.

Net short-term debt reduced from £42.0m to £4.1m.

Operating Profit interest cover raised to 6.9 times.

Sale of BVC Lin's business and assets will further improve liquidity in 1984.

Sale or 640 c.m. s positions and eases with the triple of equality in 12 Shareholders Funds increased from £267m to £81,1m. Genting reduced from £76% to £1% and further improvement planned.

Group acquired much in 67% to 41% and further improvement planned.

Group acquired worldwide rights to manufacture
and market Entrepo Micro-drive ("Stringy Poppy") hardware
for low cost, high performance memory applications.

Production of electronic fluorescent lighting ballest continenced.

Capital Expenditure in 1983 totalied £14,2m to improve and automate manufacturing facilities.

Other new products include: -Silicon chip integrated switching power supplies

- Silicon critio integrated switching power supplies
- Colour monitors
- Touch Pad" computer controllers
- Micro-crystal controlled modulators
- RF tuners for broadcast and cable television
- Dimmable electronic fluorescent lighting beliasts.

The Directors recommend a final dividend of 1.5p bringing the total for the year to 2.0p (1982 nil).

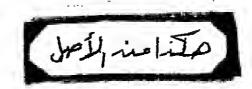
Principal electronic subsidiaries, Astec and Capetronic, expecting buoyant trading conditions and further growth in sales and profits.

Group operations are to recast to continue the favourable trends already established. es growth and profits forecast in 1984: The Chairman thanks all employees for their support during the year, which has made these achievements por

> The Technology Company BSR INTERNATIONAL PLC Incorporated in England with Limited Liability

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To obtain copies of the full "1983 Annual Report", write to The Company Secretary at the Registered Office.



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Williams C.

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Manys Comment المحاليمالي

sport in

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March 5 1984

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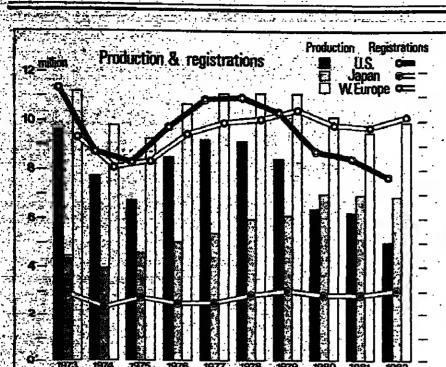
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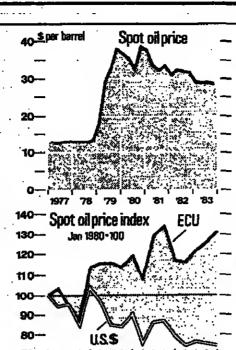
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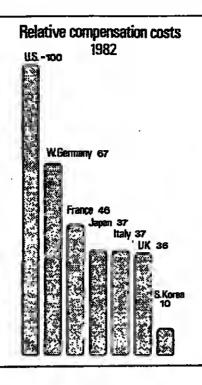
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Kong utility China project KONG Electric E le smaller of the tr not want to bank a bank a eleer power station to me Kong. Minister, said in Eist week that he me to win a major con project. GEC zustë:







better overall performance than the markets as a whole. As measured by the Capital International indices, the share

price of car producers rose 30 per cent in 1983 against

of 18 per cent.

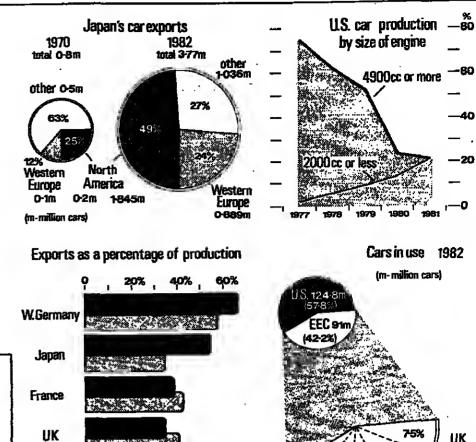
erall stock market growth

85.60 81.17

81.46 87.24 96.05 94.91

83.22

Estimated



Production shifts into higher gear

Led by strong growth in the U.S. and continued growth in Japan, the recovery in the world economy began in 1983 following the recession of 1981-82. In the U.S. this was based taitfally on a boom in consumer spending and in Japan on growth of exports.

The recession in the car. production industry started. earlier than the general downturn in the GECD economies and in industrial production, particularly in the U.S., and was more sepere.

Is and was more severe.

However, the turnround in

1983 was dromatic—with

production up nearly 30 per

cent in the U.S., 18 per cent

in the UK, and slight increases

in West Germany and France. This still leaves production .

PRODUCTION AND CARS IN USE USA TALE -6.5 EEC 51.0 9.2 10.1

* Average of 1978/82 levels well below the tereis of the 76% in the U.S., while Jopan's production continued its upward frequency of sight, decline.

Profits for the major U.S. mainifacturers in 1982 brought to an end years of losses, and pretiminary result, for 1983 show furnishing results, for 1983 show furnishing results, for 1983 interconcents.

MOTOR VEHICLE PRODUCERS Volkswegen Reneult Psugent-Cipu Fiat Toyo Kogyo Honda

The oil price shock of 1979-80 raised prices per barrel from around \$13 in 1978 to \$38 in 1989, from which they fell back

to \$28 to \$29 in 1983. However the strength of the dollar in 1981-83 prevented this fall being passed on to the European countries. While the dollar price of oil fell 25 per cent over the period, the European price rose 30 per cent. Recent wedness of the dollar should reduce this differential.

Japan's continued growth in motor output, overtaking U.S. production, has been matched

PROFITABILITY: Net Profit (after tax)		step by s	tep with grou	oth in	
1977	۳.	PROFITAB	LITY: Not Profit	(after tax)	
				1977	1

exports, which have grown nearly 200 per cent in 10 years. Exports to Europe have risen from 100,000 cars in 1970 to nearly 1m by 1983, while in Europe the level of exports has remained stagnant. European exports to the U.S. (their main market in the early 1970s) have halved since then as Japan's exports to the U.S. have grown dramatically to account for almost 50 per cent of total

exports.

The continued pressures on European manufacturers are reflected in statistics which Effective show European registrations moving ahead of production for the first time in 1980-81. Among the developing countries, South Korea is

strengthening its position, with production growing at around 30 per cent o year, olthough from o small production base of about 100,000 units in 1982. Japan's labour costs remain competitive in dollar terms

against its European competitors, although these costs are four times the comparable costs in South Among the major car

PROFITABILITY: Not Profit (efter text)		· ·			4
1977	1978	1979	1980	1981	1962
J.S. BIG 3. (USSm) (excluding contribution from Ford and GM in Europe)* 3,852	3,245	1,408	-4,243	-1,066	1,334
All Farmond commenter Cm 7.352	1.723	1.328	-588	846	-271

countries, Japan and West Germany had the lowest rate of increase in labour costs over the 1975-82 period, but the strength of the yen ogoinst the European currencies wiped out that advantage.

On the international stock markets, the shares of the leading co particular U.S., impr

Commentary by Our Economics Staff; data analysis by Financial

115.21 141.67 131.48 126.50 142.94 134.78

ear producers, rly those based in the roved in 1933 with a			graphs by Charts		Times
1	Exchange I	late			
	US	JAPAN	GERMANY	FRANCE	UK
_	100.00	100.00	100.00	100.00	100.00
	105.19	104.21	104.84	95.63	85.60
	104.70	115.21	173.00	91.31	81.17
	95.73	141.67	120.11	91.32	81.40
	93.65	131.48	127.45	83.38	87.2
	93.88	126.50	128.75	94.35	96.05
	105.69	142.94	119.28	84.37	94.9
	,02,00				60 4

GNP/GDP % growth			lade	strial	Product	ieo		
US Japan			0ECD-Europe			% change		
1975	-1.2	2.3	-0.9		U\$	Japan	OECO-Europe	
1976	5.4	5.3	4.6	1975	-8.9	-10.5	-6.9	
1977	5.5	5.3	2.4	1976	10.7	10.9	6.9	
1978	5.0	5.0	3.0	1977	6.9	4.2	2.8	
1979	2.8	5.1	3.3	1978	5.8	6.1	2.1	
1980	-0.3	4.B	1.3	1979	4.4	7.2	4.8	
1981	2.6	4.0	-0.1	1980	-3.6	4.6	0.3	
1982	-1.9	3.2	0.6	1981	2.6	1.1	-1.9	
1983	3.3	3.0	1.0	1962	-8.2	0.4	-1.5	
1984	4.7	4.2	1.5	1983	6.5	2.2	0.1	
			Source: OECD				Source: OECL	

Car Production (000's)						
	1971	1979	1982	1983*		
US	8,508	8,419	6,050	5,460		
Japan	3,720	6,130	6,888	7,094		
UK	1,740	1,070	888	1,045		
W. Germany	3,696	3,936	3,766	3,840		
France	2,698	3,732	3,065	3,215		
Spain	460	973	. 924	1,132		
B. Korea	12	112	96	130		

1971

% change							
	US	Jepan	W Ger.	UK	France	S Kore	
1975	~9.5	16.2	2.1	-17.2	-3.2	•	
1976	26.7	10.0	22.3	4.8	14.6	•	
1977	8.3	7.8	8.8	-1.0	5,3	•	
1978	-0.4	10.2	2.8	-7.1	1.7	•	
1979	-8.2	3.4	1.0	-12.8	. 3.0	•	
1980	-24.0	13.9	~10.8	-13.7	-8.8	•	
1981	-2.5	-1.0	2.2	3.4	-15.4	•	
1982	-19.0	-1.3	4.9	-7.0	4.5	36	
1983	. 27.8	3.0	2.0	17.6	4.2	33	

Productio	n morkers	in motor vehi	cles inde	X	
	US	W Germany	Јерап	France	UI
1975	100	100	100	100	700
1976	115	114	118	111	700
1977	127	.136	141	121	103
1978	128	153	191	134	111
1979 .	136	172	188	154	14
1980	160	189	186	183	189
1981	203	186	229	188	199
1982	256	211	254	202	20

19-4 m

France

W.Germany

	FRANCE	W GERMANY	ITALY	ŲĶ	JAPA
1971	1,149	2,156	640	721	1,29
1972	1,240	2,098	659	627	1,40
1973	1,340	2,203	656	599	1,450
1974	1,296	1,862	686	565	1,72
1976	1,233	1,500	661	516	1,83
1976	1,326	1,995	696	496	2,53
1977	1,429	2,201	644	474	2,99
1978	1,394	2,210	640	466	3,04
1979	1,535	2,283	647	410	3,10
1980	1,359	2,108	511	359	3,94
1981	1.244	2,197	425	349	3.94
1982	1,194	2.517	437	313	3.77

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'Bizarre' standards confusion

BY GEOFFREY CHARLISH

THE STANDARDS disarray that exists between official bodies, non-official groupings and manufacturers is causing in-creasing irritation and frustra-tion among users of information equipment from different

So much so that one of the delegates et the recent Info 84 conference in London described the present situetion as

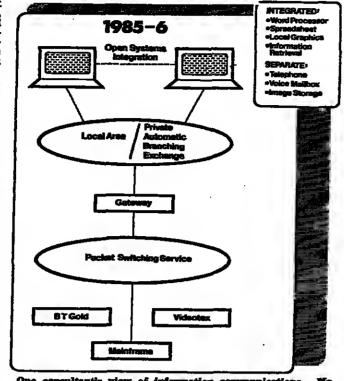
And he is not too far wide of the mark. The present position is that if someone with a screen and keyboard device (personal computer, word processor, terminal) wants to transmit text, computer data or anything else to another, dissimilar terminal on-site, let alone within the UK or overseas, then the chances

Unfortunately such communications are technically difficult, as any ettempt to grasp the complexities of the "ISO sevenlayer model" will reveal. ISO, the International Standards Organisation, is attempting to arrive at a set of standards covering all the aspects of "open systems interconnection," or OSI, from communications systems right down to how documents are arranged. This will allow communications between different equipment makes.

In so doing bowever, it has to embrace some functions that another body, CCITT (the international consultative committee for telecommunications) sees as its own. Traditionally, the CCITT has looked after public communications re-sources while ISO has covered user equipment. But in recent years computers have taken to communicating while communications equipment has become computer driven. As one speaker at Info 84, Peter Rigg of Logica said: "It is a grey

He cootinued: "The development of joint standards is stimuleted by a widespread desire to achieve them, but hindered by sectional interests and the procedural rules of CCITT and ISO, which make ccirr and 180, which make truly joint meetings and joint decisions impossible. What commonality there is is achieved by informal rather than formal collaboration."

Other formal efforts run in parallel, such as at the Institute



Peter Rigg of Logica thinks that dedicated word processors

suitable.

of Electrical and Electronic Engineers in the U.S. where the work is mainly concerned with what ISO calls "transport mechanisms"—local area net mechanisms"—local area net-works (LAN) and more recently metropolitan area networks (MAN) that cover a 25 mile radius over cable TV links. These link computers and terminals on a single ring-like

In Europe, ECMA (European Computer Manufacturers' Association) came forward with LAN proposals in 1982, and was backed by 20 companies led by ICL. This "standard" (it does not have the authority and recognition accorded to ISO or CCITT) has some commonality with both ISO and Ethernet. Ethernet largely follows the IEEE rules.

As usual, IBM waited for some of the LAN dust to settle and then announced its own experimental version. last summer. IBM's preference for

based officially on a desire to support a wide mix of appli-cations, including voice, for which the other main sont of LAN, called CSMA/CD is less

that IBM does not want Xerox to take over the whole market with its CSMA-based Ethernet system. He also commented that although both the Xerox and IRM LANs ere said to be "open," (that is, will allow any make of equipment to be connected), Xerox can prove it, while "IBM has a credibility gap at the moment."

These kinds of differences abound. Another example is in "mail-box' store and forward electronic mail offerings; none of these currently work together, since there is no common protocol or message

Meanwhile, the UK Depart- that.

ment of Industry, sensing frustration at both user end manufacturer level, has instituted

This is a strategy which aims this is a strategy which aims to identify and promote emerging standards without waiting for their formal publication. The planned confidence level behind these "intercepts" will be that they should all mature ino full standards. They should never be withdrawn or fulfil

only temporary functions.

The problem remains however: which will mature? While ever: which will mature? While users wait for the official European standards, manufacturers are bound to seek to do as much husiness with their own products as possible. IBM with its massive installed base of terminals is the obvious

IBM is known to have developed a new set of architec-tures to deal with document transfer within its own product range. These are DIA, standing for document interchange architecture, and DCA, document content architecture; they are higher level protocols over and ebove SNA (systems network architecture, the company's established communications

At the conference it became clear that AES, the word processing company, is backing the IBM approach, for reasons made plain enough by Michael Burke, product planning manager in Mootreal. He said: "It is understood that stood that these architectures are destined to become defacto standards within the industry in a relatively short time."

In the other camp—that of the telephone companies—the However, according to Peter growing stature of the private Rigg, the unofficial reason is automatic branding exchange as the means oof switching data (there were presentations from both Plessey and GEC) is partly because it is in a rather more advanced standards position than the LAN, having grown over 50 years rather than five. However, Rigg pointed out that it has "no efficient standard method for linking to computer host systems and no interna-tional standard is being

eveloped."

Burke of AES appeared to have little time for ISO, CCITT, ECMA or any of the "official" European approaches. He said: "Standards are standards only when people use them." It is difficult to argue with CAR COMPONENTS

How Van Doorne stepped up a gear

BY WALTER ELLIS IN AMSTERDAM

IT IS NOT often that a small, achieved on e continuous basis. specialist manufacturer wins contracts to supply some of the world's largest companies. Breaking in to the big league is the dream of all entrepreneurs. It belps, of course, if you have a good product, and it is also bandy to be part-owned by a duo of industrial giants. Van Doorne Transmissile, a Dutch the specialist manufacturer. Is one form or another for nearly 25 years. The struggle for perfection has been long the drawn of all entrepreneurs and arduous, and at one point, when the system was used by a rubber rather than sizel, the humiliating suggestion was gearloux manufacturer. gearbox manufacturer, is one such company. Its workforce of less than 200, based in the southern city of Tilburs, close to the Belgian border, has just had its future secured—and the likelihood of expansion con-

likelihood of expansion confirmed— by orders from Ford of the U.S. and Flat of Italy for its revolutionary CVT transmission system. The company was once part of DAF cars.

Fujl and Nissan of Japan, Opel (part of General Motors) and Volvo are also among the interested parties. Van Doorne itself predicts a brilliant future itself predicts a brilliant future for its latest device, while no less a motor magnate than Henry Ford II expects all Ford cars to offer CVTs as optional equipment within the foresee-able future.

The CVT, standing for con-

tinuously variable transmission, dispenses with fixed ratios in automatic gearing, allowing e smooth and gradual transition and permitting fuel savings of up to 20 per cent on present costs. Reliability is another advantage, with fewer parts, all of them working together, with little inter-gear resistance, the CVT is both sophisticated and

Present-day automatic gear systems still operate on the principle of abrupt movement from one gear-ratio to the next. This movement even gave rise to the American definition of a trans-mission system as a "shift." With the CVT, the process is uninterrupted by fixed stage ie, 1st, 2nd, 3rd and 4th gears.
Instead, two pulleys, one attached to the engine, the other to the drive-shaft, are capable of width-wise expansion and contraction. Each pulley, shaped like an old-fashioned cotton reel, has e dip in the middle, which deepens or raises as the sides of the pulley either move apart or close up. As one pulley deepens, the other becomes more shallow, and a belt drawn

between the two transmits the

by elastic bands. Co-operation with Fiat and Ford, among others, in recent years has helped smooth out the wrinkles, so that the latest, 811 CVT has won paeons of praise from the

anto-industry round the world. Fuil is to be the pioneer in Japan. GM is to manufacture under licence in Strasbourg Volvo Car, the independent Dutch associate of Volvo of Sweden, is to make CVTs in Relative for First and Food Belgium for Flat and Ford. Ford Fiestas, followed by Escorts, will start the process, alongside the Fist Uno and the Subaru Justy. Some cars fitted with the CVT could even be on the streets this summer.

Van Doorne Transmissie until 1979 a direct descendant until 1979 a direct descendant of Daf cars (the others are Volvo Car and Daf Trucks), is now owned jointly by the Dutch state, Volvo Car, Borgwanner of the U.S. and Flat. Volvo holds 39.5 per cent of the shares, Firt. and Borg Warner 24 per cent and the state 12.5 per cent. The founding Van Doorne

family has gradually moved out of the picture, and the present, complicated pattern of holdings complicated pattern of holdings was completed last year when Volvo Car (itself 70 per cent a state-owned) became e major partner at a cost of only F123m. Van Doomne faced an investment crisis. It needed cash urgenfly if the CVT was really to take off, and the involvement of active outsiders seems at last to have done the trick.

Van Doorne does not expect to be a major supplier of completed Cvts. Volve Car will make up to 50,000 units e year for the next two years under the terms of a new contract, while Ford is expected to go into production itself at a later

GM is investing U.S.\$180m in its plant in Strasbourg, and the Japanese will also make their own, But the Dutch company changes in speed and ratios thus will still supply parts

Computer

Linkword teaching system spreads

Dr Michael Gruneberg's Linkword system for languages is now available on a total of eight different microcomputers including the BBC Biere, Spectrum, Siring, Apricot, Apple, IRBI machines and from Tansoft for the Orie

At the mement only four-language teaching courses are available but Dr Grunebery-has plans for others includ-ing Russian, Greek and Rebrew.

The principle behind Linkword is the use of phrases which link English with the equivalent foreign word. For example, the Spanish for lobster is hummer so the com-puter asks the student to imagine a lobster with a

Graphics are not used, partly because of lack of memory in most home com-puters but also because some puters but also because some students learn better by using their imagination to create mental images rather than receiving fixed images from the computer. Dr Gruneberg admitted that this might work to the detriment of others who cannot imagine images so well.

Dr. Gruneberg, who is a psychologist and lectures at Swansea University, decided to develop Linkword as he finds languages uninteresting and thought it would be a challenger. challenge.

Electronics

Gallium crystals

SUMITOMO ELECTRIC has developed the world's first dislocation free gallium arsenide single crystal for use in integrated circuit chips, a company spokesman said.

The company plans to market it in a year. Gailfum arsenide uses less power flum silicon and operates at higher speeds but the compound has previously been difficult to use because of partial disloca-tion in the configuration of gallium and arsenic atoms.

WEEK'S FINANCIAL DIARY

The following is a record of the principal business is financial engagements during the week. The board meetings mainly for the purpose of considering dividends and officialists are not always available whether dividends concern

are interims or finals. The sub-divisions shown below are lased mainly on last year's timetable.

capability in construction. **lorwest Hols**

Materials

Tougher plastics developed

DU PONT said it had devo loped a new tough grade of plastic to be used for only parts, crash believes, appliances and other products. It said the new compound eatled Ryntie SST would be used instead of meint in products that needed stiffness and resistince to impact and heat.

Du Point said it will make the plastic first in the U.S. and later in Europe and Japan. The compound is part of its engineering releasies business which has been growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer growing faster than any other most of its nolumer and it part of its polymer med businesses.

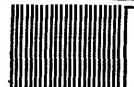
Software

Foreign language database

Guildford in Surrey, has developed a data base program which can be used in several European languages including Finnish Brench, German, Swedish, Italian, Spanish and Welch.

The data base can THE an most 15-bit microcomputors which use the MS DOS operat-ing system. Called Delta, the program has all the mesone separated from the main pu of the data base allowing and translation.

Several large computer makers including Resoluti Packard, Digital Equipment Corporation and Xerox bow. distribute the system. details from Compacti or 0483 898545.



This announcement appears as a matter of record only.

March 5, 1984

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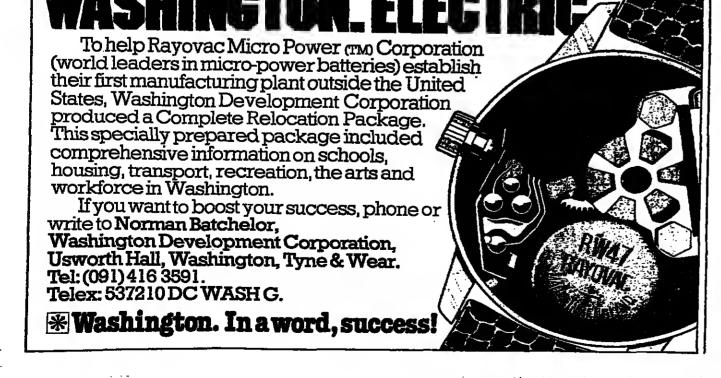
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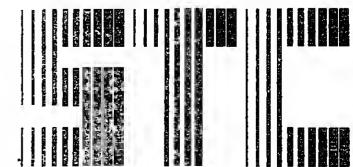
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Lawson may revise VAT system

AS THE long queues of lorries slow-ly unwound in the mountainous border regions of Western Europe after the end of the French drivers protest, the British Treasury watched with special interest.

The dispute about slow customs clearance procedures has a direct relevance to an option that Mr Nigel Lawson, the Chancellor of the Exchequer, is considering for inch-sion in his budget on March 13.

He has been looking at the pos-sibility of changing the UK system for levying value-added tax on imports to make it conform with procedures in all other European In Britain, importers are allowed

a period of delay between the land-ing of goods, when VAT is due, and the actual payment, made with their next quarterly VAT return to the Customs and Excise depart-

The period of grace between the physical import of goods and the payment of VAT varies widely, but the average is thought to be about six weeks. That might be considered by some as an interest-free loan from the Treasury.

On the European cootinent, bowever VAT must be paid as the goods pass through customs points. Although rules vary between different countries, lorry drivers have to deal with complicated paperwork and are often subject to tedious de-

MIPORTS TO UK (Ebn on oversess trade basis)					
	1982	1983	% change		
Total goods	56.9	66.1	16		
Non-inquilactured goods	18.6	19.7	8		
Semi-manufactured goods	14.0	17.0	21		
Finished manufactured goods	23.0	28.0	22		

The obvious advantage of the continental system from the Trea-sury's point of view is that it would accelerate payments on Britain's imports (£86bo last year) and give a once-for-all boost to the Governent's financial position.

The effect would be to reduce the public-sector borrowing requirement in 1984-85 by between £500m and £1.5bn, depending on whether a change of rules were applied to all imports or to some categories like manufactured goods only.

That might give the Chancellor some much-needed room in his budget to improve the incentives for saving, or to ease the tax burden at some of the points where it is bearing beavily

An additional argument which officials have deployed in favour of the change is that it would discriminate against importers without heing overtly protectionist.

Last year, Britain's imports of

deal with the new VAT forms and to check that cargoes corresponded to the documents. Another reason for the Chancel lor to hesitate might be to allow

rigures are nigner train those on balance-or-payments basis, whi er costs. Total of goods includes some "miscellaneous" imports the change to some categories of imports only.
For example, an importer of a for tured goods surged by over 20 per cent in value terms. Against these arguments, the eign car might find the point of en-Chancellor has to balance two sets try procedure less onerous than a British-based manufacturer using a

of objections. • The first is the mass of practical difficulties associated with collecting VAT at the point of entry. Those difficulties have been dramatically highlighted by the continental lorry

 The second is that the lorry men's action bas greatly increased pressure on European governments ish system of delayed collection of VAT on imported goods.

That militant pressure is rein-though that would reduce the finan-

forced by a more stately recommendation of the European Commission. In July 1982, it said that the Chancellor must be greatly tempted Council of Ministers should agree by the idea. The 25 per cent into adopt the British postponed accrease in company profits this year

counting system (PAS).

It might seem perverse for a British Chancellor to choose this motion make the accelerated payments

in union donations - and unfamiliar - paperwork. Several hundred extra custom to Labour officers would also be required to

By Philip Bassett,

LABOUR PARTY finances, already in danger from the effects of the Government's Trade Union Bill, face a new threat from a sharp drop for the first time in recent years in trade union members' political contributions, according to official fig-ures to be published next month.

The figures, which have al-ready been sent to Mr Tom King, the Employment Secretary, will cause dismay in the Labour Party and the unions. About 80 per cent of the party's income comes

Labour's finances are likely to suffer because of the Bill, which is due to become law in the sammer. Its provision of 10-yearly membership ballots on the continuation of trade unions' political funds is felt by many in the party and the unions to be likely to lead to a cot in the unions' fi-

nancial support for Labour.

One authoritative estimate is that this and other measures could cut up to 12m from Labour's income, which stood at £3.59m in 1982, the latest year for which figures are available.

However, in advance of these expected difficulties, new figures in the annual report of the Gov-erament's Certification Officer, Mr Alan Burridge, expected to be published next month, will show the financial support for Labour among union members to be declining

The total figures for all 63 mions with political funds at the end of 1982 show that 77 per cent of trade union members now pay the political levy, compared with an annual figure of 81-82 per cent over the previous live years.

They show that 6.49m trade union members - out of a possible total of 8.43m in unions with political funds - now pay the po-litical levy, compared with 7.17m levy payers out of a possible 8.9m

The number of unions with political funds is also down by more than 7 per cept.

Sharp drop Grant aid for high technology set to be cut

to save some cash from funds ear

marked for regional development grants, but not taken up, in the

The rapid take-up of the SFI pro-

grammes money, though alarming in one sense, is also seen as proving

that there is considerable activity in

the leading edge fields. It is also argued that this level of activity

shows that government aid need

The Industrial Robots scheme, funded with £10m 18 months ago, is

now considerably overspent. Its

Manufacturing accounted for 37 per cent of the book value of out-

ward direct investment, while dis-

tribution accounted for 28 per cent,

oil for 29 per cent and banking and

in the UK was from the developing

countries. The U.S. accounted for 57

Just under a quarter of inward di-

rect investment was held by EEC

In terms of sectors, manufactur-

ing accounted for almost half of the total book value of inward direct in-

vestment. More than half of North

Virtually all foreign investment

insurance for the remainder.

not be pitched so high.

has less than £20m left.

coming year.

BY JOHN LLOYD, INDUSTRIAL EDITOR

THE GOVERNMENT is expected shortly to cut the grants it pays to promote high-technology industries the sector pinpointed by industry ministers as crucial to the UK's eco-

Funds allocated for support of advanced production processes and techniques have been snapped up much more quickly than had been planned, and most programmes are likely to run out of their allocated funds long before the given time

It is now almost certain that the Support For Innovation (SFI) schemes, which give a maximum of 33.3 per cent grant to projects which prove they would not go ahead without government assis-tance, will be cut back soon to a level of 25 per cent, or possibly less. The grants were raised from 25 per cent to 33.3 per cent last year for an indefinite period.

It is expected that the cuts may companion programme, the Flexible announced in the March 13 budble Manufacturing Systems scheme get or in a separate announcement — which received £35m over four

BY CHARLES BATCHELOR

book value at the end of 1981. This

figure compares with investment by

overseas companies in the UK of

nearly £29bn, according to figures

just released by the Department of

The department's statistics in-

clude for the first time data for in-

surance companies time and cover

More than four fifths of UK di-

rect investment overseas was in the

developed countries, half of which

The U.S. was by far the most im-

Trade and Industry.

Officials believe they may be able

Investments overseas

UK COMPANIES had not direct in-

all direct investments by UK com- per cent of the total with holdings

of £18.4bn.

estimated at £44bn

stments overseas worth £44bn at oping countries.

Rolls to develop engine for fighters

By Michael Donne

ROLLS-ROYCE has begun to develop as a private venture a new en-gine for future fighter aircraft, called the XG-40. It is designed for the new generation of light combat aircraft expected to enter service in

the 1990s. The venture is in parallel to work under way by Snecma, the French aero-engine manufacturer, on an engine called M-88 which is de-signed to power the French Das-

sault-Breguet Avion de Combat Ex-perimental (ACX).

The Rolls-Royce power-plant is called a "demonstrator" because it One of the oldest of the SFI chemes, the Microelectronics Industry Support Programme, has now exhausted the £55m allocated aims to prove the basic concept of the new engine before it is put into to it in 1978. Its companion programme, the Microelectronic Appli-cations Project which received a total of £85m to fund it to 1985, now quantity production, or instead it will be used as a stepping stone to

further developments. ft is aimed at powering the proposed Future European Fighter Aircraft (Fela) of the 1990s. This is a plan for a European collaborative fighter aircraft for the mid-1990s, between the UK, France, Italy,

Spain and West Germany. As a preliminary development, the UK-through a group of companies headed by British Aerospace and supported partly by the Government - is developing the Experimental Aircraft Programme (EAP) for a first flight in 1986. years at the same time - has al-ready spent some half of that.

This is, in turn, designed to lead into either an all-British Agile Combat Aircraft (ACA) for the 1990s or

The EAP itself is costing £200m of which the Government is providing about £85m and the companie the remainder.

Initially, the EAP is expected to use a derivative of the RB-199 engine which powers the Tornado fighter. But Rolls-Royce believes that an all-British technology demonstrator engine is also desirable and the XG-40 is the result.

Work on the XG-40 is at its earliest stages. The first demonstrat model is not expected to run on the test-bed until 1986. The engine will embody much advanced technology in new materials, turbine blade de sign and other areas.

• Mr Norman Tebbit, Secretary for Trade, inaugurated on Friday a film test rig at Rolls-Royce's Der-

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Deteron (Activities)

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Mgood re

goods rose by 7 per cent in volume ment to move in the opposite direc- without obvious strain on their cash terms while imports of manufaction, especially as the move would resources. £115m order likely to help sale of Shorts

BY OUR BELFAST CORRESPONDENT

A HUGE U.S. government order for Short Brothers, the state-owned Belfast aircraft manufacturer, is likely to help the company on its way back to private ownership.

Initially worth £115m, the contract to supply Sherpa freight air-craft to the U.S. Air Force might reach a total value of £460m if options for more aircraft are taken up.

Sir Philip Foreman, chairman and managing director of Shorts, was overjoyed. The order was won after 18 months' struggling against more experienced competitors.

"Other countries, particularly in the Far East, could follow the American lead," Sir Philip said. Shorts will build 18 Sherpas, the.

liner, to be used to ferry spares between USAF bases in Europe. The options cover another 48 aircraft and can be exercised over the next two to four years.

The deal is worth so much because Shorts will also mount an extensive support programme to serpany's engineers will be permanently stationed in West Germany.

Shorts will quickly add another 600 workers to its 6,000 labour force and the enhanced prospect of fur-ther sales will stabilise employ-

Sir Philip said that after many years of losses, the company would tures a range of regional commuter break even in the current financial, and freight aircraft, produces

would belp its return to profitability in 1984-85.

"A return to private ownership would be healthy but there is no point thinking about it until we bave at least two years of good profits in the bag, and, more importantly, can project sustained profits," be said.

For several years the company, with government support, bas invested at the rate of £20m to £25m annually in new technology and capital equipment to make its Belfast complex one of the most modern aerospace facilities in Europe. Shorts was restructured in 1967

thto three divisions. It manufactures a range of regional commuter

components, including jet engine pods, for other aircraft companies.

more time to consult with industry

about the advantages of applying

lot of imported components. The

complete car would be subject to

only one bout of form-filling.

On the other hand, a manufacture

er using many imported compo-nents would have to go through the procedure multiplied many times

with possibilities of delay on each

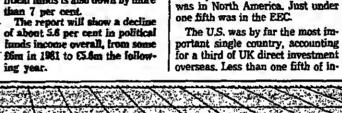
It might be seen as fairer to accel-

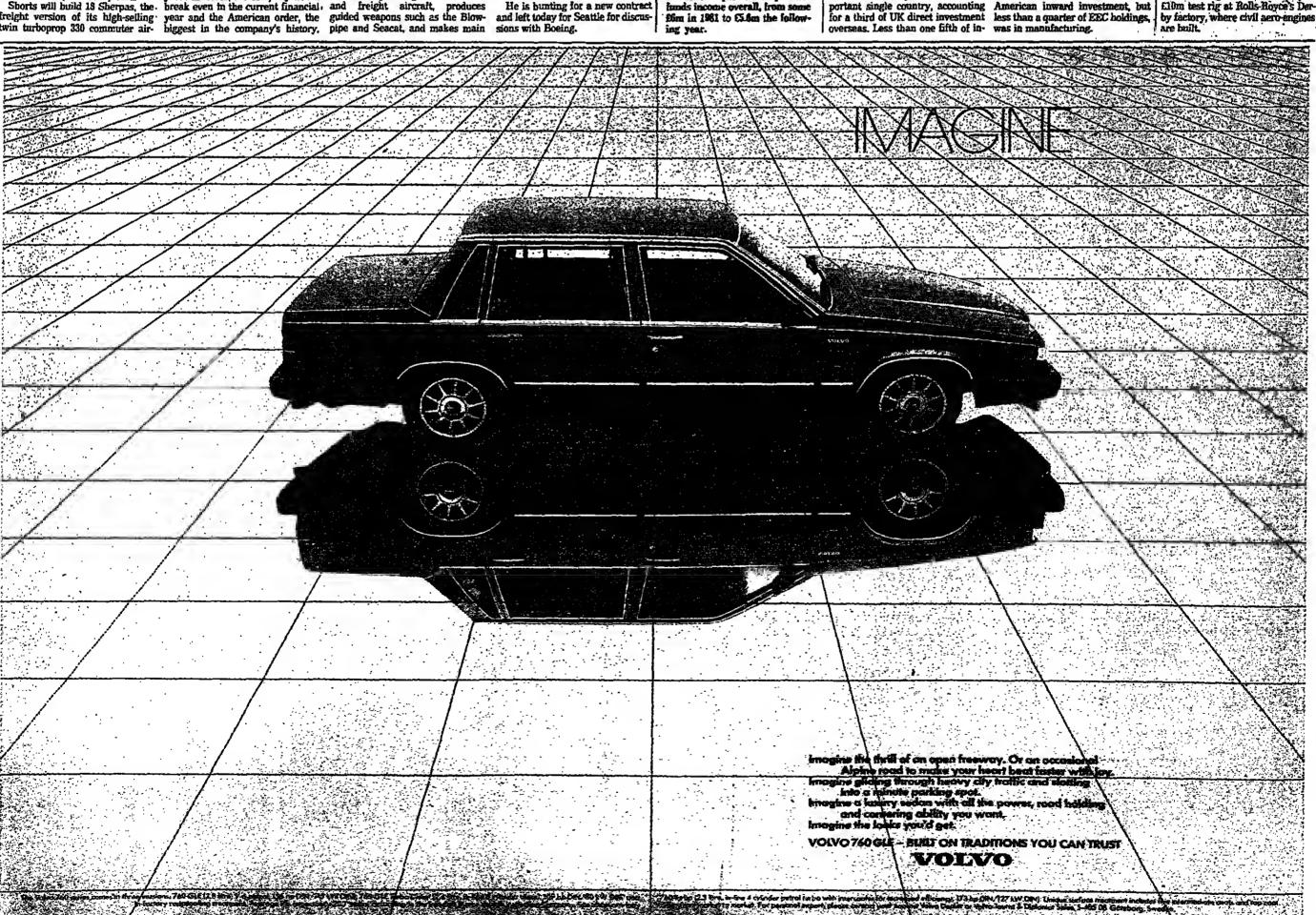
Despite all these difficulties, the

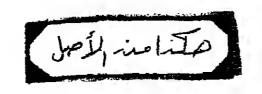
The USAF order has cemented the success of the aircraft division More good news is expected this week, in the shape of a batch of orders for the 36-seat Shorts 360 air craft, some of them for British Midland Airways, and its subsidiary Loganair and Manx Airlines.

Sir Philip said he now wanted to build up the components side of the business again after difficult times caused by the recession in the big-jet market. That led to a reschedul-ing of work for Boeing and Rolls-Royce, and it meant redundancies

He is bunting for a new contract







shows 16% rise

Textile production

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/elopments re European Fights is) of the 1992s. This is traft for the middle the UK. France by West Cermany. eliminary developme is developing the first craft Programme (EA) in Drive gearand was an all-British Agle Co it (ACA) for the 1996; an collaboratve Feb

the EAP is expected: cative of the RRige h powers the Toric ut Rous-Rouse being

PYCE has begun to day twate venture a try a further figure a fund to see the try a KG-4n. It is designed to meration of light code

power the French by test Avion de Combath is Royce power tient semonarator because gine before it is put a reduction. Or intest it as a stepping supp sed at powering the pa

arough a group of tome of by firmuch Aerona reed partly by the Go itself is cosing the in Government is prod 355m ಎಸ್ತರ ಜೀ ಯಾಹಾಕ

British technologies SECTION IS ALTO CASES. initi Li Lite result. the XG40 is a mag. The tirst demouster of expected to place to tel 1996. The engined och 40 annet besmir terrain mirote stand ther area. men Techn, Secretati augurated of Pring ng si Talu Rojekk

where it is servery

BY MAURICE SAMUELSON import penetration.
The British Man-made Fibres Federation said that UK production and deliveries in 1983 regained

most of the ground lost in the previous year. Production rose 15 per cent (to nearly 390,000 tonnes) with deliveries rising If per cent (to 395,000

Total employment in the artificial fibres industry was 19,120 at the middle of the year, 16 per cent less than in Jure 1982 and less than half tha June 1989 level. A fractional in-

THE UK textile industry yesterday crease at the end of last year sugprovided fresh evidence that it is gested that the long-term control gested that the long-term contracbeginning to recover after years of tion of the workforce had stopped. For staple fibre (as distinct from filament yarn), production and deliveries were the highest for two years, with exports accounting for

56 per cent of total deliveries. The industry's improvement is partly a result of the weaker pound, which has belped to cut imports. Manufacturers say they are also reaping the benefits of the past four rationalisation and re-

In the industry as a whole, output per worker is said to have risen by about 25 per cent since 1980.

Budget likely to keep inflation fight as priority

ary edge and a series of measures tended to encourage savings and

Mr Nigel Lawson, the Chancellor of the Exchequer, may tighten slightly his borrowing target com-pared with that implied in the medim-term financial strategy. This suggested a public sector

borrowing requirement of 2% per cent of national income which will robably come to about £8% in 1984-85 on the Treasury projec-

An improvement, however, in the outlook for the economy - and for government revenues - since the autumn will allow Mr Lawson to announce a lower target without raising taxes, probably of C7%bn. Over-all, be is planning tax increases to balance concessions, in spite of his increased room for manoeuvre.

The Chancellor is also likely to emphasise the priority of the fight against inflation by announcing new figures for the medium-term financial strategy showing inflation coming down to about 3 per cent by 1987. He may extend the timescale to show a continued reduction in government borrowing.

The most widely expected of the measures to belp individual savers is a reduction or abolition of the 2 per cent stamp duty on share trans-actions. Total abolition would cost £300m to £400m in a full year, but it would have the double advantage of helping personal investors and making the London Stock Exchange more competitive interna-

Mr Lawson has also been looking at other possible measures, includ-ing abolition of the investment in-

THE UK BUDGET on March 13 is come surcharge, hy which un likely to have a tough anti-inflation- earned income of more than £7,100 is taxed at a higher rate than earned income.

The Chancellor has also been looking carefully ot ways of easing the impact of capital gains and capital transfer taxes.

These measures to help savers are likely to be broadly offset by removal of some of the tax privi leges of savings institutions. Build-ing societies, which lend money for house purchases, have been told that capital gains on their dealings in government securities are to be taxed as income, instead of being

treated as tax-free copital gains.

Banks have also been told that
they will have to deduct tax from interest paid on deposit accounts, instead of leaving the customers to declare the interest. These two measures could yield the Treasury some £200m in a full year.

There are strong indications that Mr Lawson moy reduce or remove the 15 per cent tax relief on life assurance premiums, with a total possible saving of about £500m o year.

The Chancellor would like to continue the shift from direct to indirect taxation. His priority for cut-ting indirect taxation would be to raise persocal income tax allowances by more than the 5 per ceot rate of inflation.

He could raise allowances and thresholds by 3 per cent more than the inflation rate at an extra cost of about £600m in a full year.

To find such a sum, he would need to increase Indirect taxes. One possibility, which he has been carefully considering, would be to accelerate the payment of value-added tax on imports. This could raise about £1.5m oext year

Big rise in car output expected by Lotus

By Kenneth Gooding, Motor Industry Correspondent

LOTUS, the sports car manufac-turer founded by the late Colin Chapman and based in Norfolk, expects to produce 900 cars this year. Mr Mike Kimberley, the managing director, says it will be a 40 per cent improvement on the 612 cars made last year.

He expects about 250 to go for sale in the U.S., compared with the 180 sold there in 1983. Mr Kunberley maintains that Lotus's financial difficulties at

the beginning of last year prevented the company from increasing output at a time when it was re-entering the U.S. market.

As a result, the 180 cars were switched from the UK market and the company's sales in Britain dropped from 410 to 383, when the total registrations rose

by 15 per cent. Lotus's finances were put back on an even keel last August by a £6.69m rescue operation which resulted in British Car Auctions taking a 26 per cent stake in the sports car company, Toyota, Ja-pan's largest motor group, took another 17 per cent.

Mr Kimberley says that Lotus is strengthening its UK dealer network. Several new dealers some associated with Austin Rover - are shortly to be ap-pointed to replace others who have left the network.

In the U.S., Lotus has appointed 24 dealers, and ultimately wants 50 there.
Lotus is involved in engineer

ing projects for 16 another companies, mostly in the car indus-try, and the engineering business is growing at 20 per cent a year, ording to Mr Kimberley.

Banks may set aside £1bn for bad debts

cover bad debts in the UK and abroad. But their annual results due this week - will still show solid increases because of the strength of

their loan husiness The exception is Midland Bank. the third largest, which has said

1983 earnings. Lloyds Bank, the smallest, is exprofits rise of about 25 per cent per ceot on 1982. from last year's C323m. Lloyds, which has the biggest exposure of the clearers in Latin America, swalloan crisis and the high rote of the Crocker lowed a good part of its bad debts in bankruptcies in the UK.

will probably have to set aside more of about 15 per cent on the £495m be used to cover bad debts abroad than Clbn of their 1983 profits to and £439m they earned in 1982. which, Mr Reynolds says, total Midland's results will be down by a similar amount from £251m.

According to Mr Keith Brown, Greenwell, the factors boosting bank profits were the strength of personal loan demand in the UK, a that property loan problems at rise in fees and commissions -Crocker National Bank, its U.S. banks raised their charges in 1983 subsidiary, will wipe about £75m off and the fruits of the industry's cost-

paring drive.

He expects the Big Four's profits

Barclays Bank and National set aside a record £1.25bn to cover on the strength of loan demand and

THE UK'S Big Four clearing banks will probably show profit increases C962m in 1982. Of this, C679m will more than the banks' profits from

their international operations. This figure includes Midland's bank stock analyst at stockbrokers £75m Crocker provision. Even without it, however, the total would be higher than the 1982 figure of

Barclays will show the scars of business loan losses in Mexico and the U.S., as well as bad debts in its California retail business. NatWest has the smallest overseas exposure pected to come out on top with a to total about £1.7bn, up about 13 of the clearers, but loan losses will still show an increase,

problem. If they are, then it should 1982, so it eotered 1983 with a clean-er balance sheet than the others.

Mr Keith Reynolds of De Zoete be able to share in the upswing in and Bevan predicts the banks will bank profits forecast for this year.

Government faces ports row

BY BRIAN GROOM

THE GOVERNMENT is heading for a row with the ports industry and other trade interests over an official report which calls for cuts in customs facilities and an increase in charges levied oo traders by the Customs and Excise for providing the service.

The report on customs attendance was carried out by Sir Derek Rayner in 1981 as part of his brief, to cut Civil Service costs. It was released for consultation only last December, after a long battle in cabioet between the Treasury and other

The British Ports Association believes the report is "misconceived and misguided" and is calling for its withdrawal. It argues that the reccompetition among British ports, be withdrawn "in some cases where and damage their international the volume of traffic is so low that it competitiveness.

The association wants all charges attendance." for providing customs services removed as part of o wider effort to

ties - reduced. Other groups like shipowners are also concerned about these costs. The shipping industry pays the bill for pilotage (£43.5m in 1982) and lights (forecast at £46m for 1983 to

1984).

is grossly unecocomical to provide

Its recommendations include: withdrawing passenger facilities if inward traffic falls below 30,000 a cut the cost of using British ports, which is generally higher than oo the Continent, it also wants the cost of pilotage and lighthouse services national need; limiting hours of opprovided by independent outhorieration for passenger services; in-fluencing the timing of arrivals and departures to avoid peaks aod troughs; and not approving new ferry facilities unless there are no suit-

able existing ones.

The report also recommends that regular customs facilities at some The Rayner report says Britain of Britain's 35 international airports has too many ports and wharves. It calls for regular customs services to foreign flights - be withdrawn.

Lost drug sales 'cost £100m'

By Lisa Wood

THE BRITISH pharmaceuticals in-dustry claims to be losing about £100m-worth of sales a year to companies which buy UK-made drugs theaply in Europe and bring them

back for sale in Britain.
One company, Unichem, a major chemists' wholesaler, claims this costing it about tim a month in lost

Mr Makcolm Town, owner of Maltown, another wholesaler, said the practice of parallel importing did not benefit the taxpayer because a retail chemist, buying cheaper imported drugs had no choice but to claim the agreed price from the National Health Service

Mr Town gave tha example of Ventolin, an asthma inhaler, made in the UK by Glaxo Pharmaceuticals and costing the NHS c2.91 per prescription. Maltown re-imports the drug, at £1.45, from France, Bel-

gium and Italy.

A further twist to parallel importing is that of UK parallel importers re-routing drugs priced for other English-speaking markets into the UK Adalat, a drug for treating hy-pertension, is sold by Mr Town at about half the price that the West German company, Bayer, charges the NHS.

Mr Town buys supplies of the drug from a West German Bayer-supplied wholesaler who has told the manufacturer that he wants the product for a market where the company charges substantially low-er prices. The product is then re-routed to the UK.

Bayer declined to comment on

The Department of Health and Social Security said the pricing reg-ulatory scheme protected the Brit-ish pharmaceuticals industry as well as giving the NHS drugs at a reasonable price. The department is investigating the issue of parallel imports and is expected shortly to issue new regulations which could reduce the practice.

Directors stay optimistic

By Our Economics Staff

COMPANY directors cootinue to be optimistic about the prospects for business, according to the latest survey of its members by the Institute of Directors, published today. Just under 60 per cent of the 200 directors interviewed said they

ness prospects than they were six month ago. This result is similar to the findings from the two previous surveys in the series, which was launched in

were more optimistic about busi-

The directors appear to have become slightly more optimistic about the trend of profits, with a balance of 47 per cent reporting that they were better during the last six months than in the same period last year. This compares with a balance of 30 per cent in the October survey.



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of travelling on business for your company's executives. Naturally they can use it to sign for their hotels, restaurants, car-hire, rail and air tickets.

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Total market
Total UK produced

General Motors (Vauxhall-Opel)

Peugeot Group

Total Peugeot

Fiat-Lancia

Volkswagen-Audi

THE WEST EUROPEAN car market bubbled with interest last year. Three factors in par-ticular contributed to a fascin-ating 1983:

ating 1983:

The hunching of major producers at the top of the sales charts with only 1.4 perceotage points separating Renault at the top from General Motors in sixth position;

The continued steep rise in

M The continued steep rise in the fortunes of GM, the Vaux-hall-Opel group, which increased its West European market share from 9.6 per cent to 11.2

per cent;
The recovery of Japanese

sales which went back above 1m, taking Japanese share of

the market to a record 10.1 per

The Japanese performance was fuelled mainly by substantial increases in volume in two major markets: West Germany,

the largest in Europe, and the UK, as well as in the Nether-

DOMEST Firt Auto UK CAR REGISTRATIONS

43.03 56.92

14.63

5.62 3.57

342

2.77

771,950 1,019,749

518.048

262,141

58,183 25,751

104,684 100,727

62.923 61,250 1,555,027 657,533 897,494

474.192

181,737

99,932

93,213

64.147

51,707

In Britain, where an unofficial agreement restricting car shipments from Japan has been in existence since 1975, the Japanese last year benefited from the very steep rise in total car sales. The UK car market increased by 15 per cent from the 1982 level to a record 1.79m. Although the Japanese penetration eased slightly, there was a 12.6 per cent improvement in volume in Britain.

The Japanese did even better in the Netherlands, pushing volume up by 20 per cent to nearly 110,000 cars.

For Western Europe as a whole, Japanese car sales rose

by 10.6 per cent, from 955,800 to 1,057,654 last year.

volume in Britain.

57.72

30,47

17.83

11.49

1.26

3.60 1.55 6.41

5.99 5.94 4.13

3.33

3. 14

DOMESTIC

Chrysler

IMPORTS

Toyota Nissan Honda Mazda Subaru YW-Audi

Lep directors move

Walter Politzer in December last year. Mr Leeper joined Lep in 1973 wheo he opened the group's Houston, Texas branch.

Mr David K. Newbigging has been appointed a non-executive director of PROVINCIAL INSURANCE from April 25. He will also join the hoard of Provincial Life Assurance Company. Mr Newbigging recently retired as chairman of Jardine Matheson and Co He is a member of the international council of Morran Guaranty Trust Company of New York and recently rejoined the board of Rennies Consolidated Holdings of South Africa.

SHERWOOD COMPUTER Romford, has appointed his appointed the Singuistic and company secretary. He loins from Datastream. Sherwood claims the London insurance and software specialist and computer bureau in the London insurance and reinsurance companies.

SHERWOOD COMPUTER Romford, has appointed his significant to be the most experienced and software specialist and computer bureau in the London insurance and reinsurance companies.

Mr David K. Newbigging has been appointed a non-executive director of Provincial Life Assurance Company.

Mr Newbigging recently retired as chairman of Jardine Matheson cates and 50 insurance and reinsurance companies.

Mr Newbigging recently retired as chairman of Jardine Matheson cates and 50 insurance and reinsurance companies.

Mr Newbigging recently retired as chairman of Jardine Matheson cates and 50 insurance and reinsurance companies.

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Mr Newbigging recently retired as chairman of Jardine Matheson cates and 50 insurance and reinsurance companies.

Mr Newbigging as consolidated and companies and com Holdings of South Africa.

YORK TRAILERS HOLDINGS has appointed Mr James F. Davies as joint managing director. He has been managing director of Scammell Trailers and of York Traller International.

Mr Stuart Soloway has been

appointed managing director of SHOPPERS PARADISE. The existing supermarket and super-stores divisions of Fine Fare Group are being merged to form a combined retail division. Mr John Allan is appointed director. Fine Fare Retail, with overall responsibility for buying, market. ing and operations. Mr Matthew McKenzie becomes operations director, and Mr Robert Gavaghan becomes director, productivity, in addition to director, non-foods.

At MUNTON AND FISON ABBEY LIFE ASSURANCE (HOLDINGS) Mr David Wells COMPANY has promoted Minds retired as non-executive Roger Willeth to assistant executive director. Mr Tom Wells was appointed a non-executive director. Mr division from April 2 executive director. Mr Andrew C. Shelley has been appointed chief executive. He appointed chief executive. He was finance director. Mr Tom appointed directors of Mrssel. ales director. Mr Archie Elicanas retired but remains a non-eccutive director. Mr Cyril hambers has been appointed: echnical director on Mr Elicanas director director on Mr Elicanas director direct

RYEVES BROWN ASSICTATES has appointed as Whitam Gill as director/actuar. He was a director of Godwin.

Mr Antony Bates has been appointed an associate director of CHARLES BARKER CITY.

स्थातन होता है है। जारोजन

Mr Thomas W. R. White succeeds Mr Dermot Leeper as managing director of LEP AIR in the UK and will be based at Heathrow. Mr Leeper has been appointed president of Lep International Inc. in Canada. Mr White joins Lep from Pandair Freight where he was Group managing director for 18 years. Mr Leeper will be based in Toronto and will take over from Mr Peter Brown, who in turn moves to take over as president of Lep Transport Inc. U.S. based at Boston. This follows the retirement of Mr Walter Politier in December last year. Mr Leeper joined Lep in 1973 wheo he opened the group's Houston, Texas branch.

Mr David K. Newbigging has been appointed a non-executive payor belting and industrial textiles subsidiary, in succession to Mr Ren Waittell, who has textired. Mr Campbel has been affector of Scandura since 1970.

Mr Raiph Levy, having completed the handover of Dannimae to WILLIAM BAJRD which acquired the business from his executive appointments with board of William Baird as a non-executive director.

SHERWOOD COMPTITER Romfort, has appointed Mr David L Lawrence as financial director and complete the payor belting and industrial textiles subsidiary, in succession to Mr Ren Waittell, who has director of Scandura since 1970.

Mr Raiph Levy, having completed the handover of Dannimae to WILLIAM BAJRD which acquired the business from his executive appointments with board of William Baird as a non-executive director.

SHERWOOD COMPTITER Romford, has appointed a non-executive director.

countries which have their own car production, imports take at least one quarter of total car sales. In Japan, only 1.12 per cent of the market was given up to imports last year. to imports last year.

The struggle between Toyota and Nissan reached a new inten-

sity in the Japanese market place in 1983. Honda, however, continued its releatless progress and man-aged to push TK into fourth place—but by fewer than 1,000

In Europe the major in-In Europe the major individual markets were out of
step. Compared with 1982, sales
in Britain were up by 15 per
cent, those in West Germany
improved by 12.5 per cent but
France and Italy suffered declines; by 2.2 per cent and by
6 per cent respectively.
The Peugeot group's fortunes
were mixed.

The Pengeot group's fortunes were mixed.

The Pengeot marque was boosted substantially by the introduction of the 205 "supermini." But industrial disputes at the Talbot factory near Paris had a further unsettling effect on that disputes which is continued. the largest in Europe, and the UK as well as in the Nether. In West Germany the Japanese companies had a commined 20 per cent increase in shares won hast year per cent increase in shares won hast year per cent increase in that it had its best-ever year in were: Fiat 12 per cent of the market (12.3 per cent in 1982) world's 1983 car sales, estimated to have been about 29.5m.

The Six major car markets were mixed.

Illustrated here accounted for The Peugeot marque was world's 1983 car sales, estimated to have been about 29.5m.

The slump in sales of cars at the Talbot factory near Paris unit sales. Replacement of the UK spending necessary to on that division which in any group still decided to go abead to have been about 29.5m.

The six major car markets were mixed.

Illustrated here accounted for The Peugeot marque was world's 1983 car sales, estimated to have been about 29.5m.

The slump in sales of cars at the Talbot factory near Paris unit sales. Replacement of the UK appeared on february 31.

The six major car markets were mixed.

Illustrated here accounted for The Peugeot marque was world's 1983 car sales, estimated to have been about 29.5m.

The slump in sales of cars at the Talbot factory near Paris unit sales. Replacement of the UK appeared on february 31.

The six major car markets here accounted for The Peugeot marque was that it had its best-ever year in were: Fiat 12 per cent of the world's 1983 car sales, estimated to have been about 29.5m.

The slump in sales of cars at the Talbot factory near Paris the Talbot group 11.7 per cent on the slump in sales of cars at the Talbot factory near Paris the Talbot group is sales of cars at the Talbot factory near Paris the Talbot group is sales of cars at the Talbot factory near Paris the Talb

about 190,000 of the small cars which also opened up the important Spanish market to the US group—local producers receive preferential treatment for 42 per cent, was beaten only ceive preferential treatments by the Volkswagen Golf. The cars they import to Spain.

VW model notched up sales of GM's share of the Spanis 453,135 and a share of 4.3 per market jumped from 3.2 WW model notched up sales of GM's share of the Spanish car is3,135 and a share of 4.3 per market jumped from 3.2 per cent to 9.8 per cent last year and its sales from 17,180 to registrations. Renault, Seat the State-owned

WEST GERMANY

5.82 29.6 18.09 14.37 10.83

512,623 125,590

638,213 390,082 309,950

93,284 86,735 83,668 40,573

Spanish group, and Ford all lost ground to GM in Spain. Renault's share was reduced from 32 per cent to 31.1 per ceot; Seat's from 26.1 per cent to 22.7 per cent and Ford's from 15.2 per cent to 13 per cent. The six major car markets illustrated here accounted for

	JAPA	N _		
mestic .	1982 3,002,950 35,564	% 92.23 1.17	1983 3,100,475 35,334	% 98.27 1.12
al market	3,038,514	100,00	3,135,811	100.00
MESTIC				
ota	7,173,850	38.63	1,247,610	39.78
san	822,375	27.06	833,145	26.56
o Kogyo. (Mazda)	247,357	8.17	244,544	7,79
ncia	239,579	7,88	. 245,132	7.80
subishi	225,780	7.43	189,369	6.03
hatsu .	76,799	2.52	112,216	3.57
uki	\$1,980	2.69	90,969	2.90
(Subaru)	77.270	2.54	79,481	254
all .	57,949	1.90	57,209	1.84
ORTS				
czwagea	. 15,076	0.49	13,227	0.42
redes	5,739	0.78	6,428	0.21
₩ .	5.293	0.77	6.298	0.20

	ITAL	Y	• .			FRAN	Œ		
ic mrket	1982 998,459 686,121 1,684,580	% 59.20 40.80 100.00	1983 1,002,357 579,670 1,582,027	% 63.40 36.40 100.00	Domestic Imports Total Market	1982 1,427,008 629,482 2,954,490	% 49.39 30.61 100.00	1983 1,355,097 655,789 2,010,886	47.38 32.62 100.00
TIC to (Lancia/Autobianchi)		51.60	274,130	55.40	DOMESTIC Renault Peugaot groups Peugeot	804,968 261,394	39.10	704,585 295,194	35.00 14.70
ti	106,655	1.20	104,182 13,723	0.90	Citroen Talbot	248,975 111,610	12.10 5.40	259,734 89,176	12.90
rs t-Citroen-Taibot	185,871 142,607 84,916	17.10 8.40 5.00	161,642 160,931 72,276	10.26 6.40 6.40	Total Peugeot IMPORTS Ford VW/Audi	132,815 124,410	30.20 4.50 6.00	142,453 116,446	7.10 5.80
igen Motors (Opel)	89,189 62,445 26,232 31,630	5,30 3.76 1.60 1.90	68,503 55,371 28,237 27,993	4.30 3.50 1.80 1.70	Fiat General Motors (Opel) BL, BMW	101,491 51,823 33,061 33,467	4.90 2.50 1.40 1.60	100,986 77,743 32,089 33,076	5.00 1.90 1.60 1.60

WORLD CAR MARKETS

UNITED STATES

GM's fortunes rise in Europe

leadership it has held since 1980
by a nose with a 12.6 per cent
share—only 10,000 registrations
separated the two manufactures sales of 442,663 and a share of

Motor Industry Correspondent

separated the end of 1983. This was in a total market which improved by 4.7 per cent from 20m to 10.5m.

Ford's disappointment at be-

By Kenneth Gooding,

6,795,302 2,382,475 9,177,777

1,571,321 841,622

74.94 25,96 108.00

5,756,660 2,221,398

530,246 470,246 365,865

163,638 150,335 113,303

72.15

14.86

1.40

4.64 5.89 4.58 2.05 1.88 1.42 1.17 0.92 0.82

DOMESTIC:

Mercedes BMW

IMPORTS

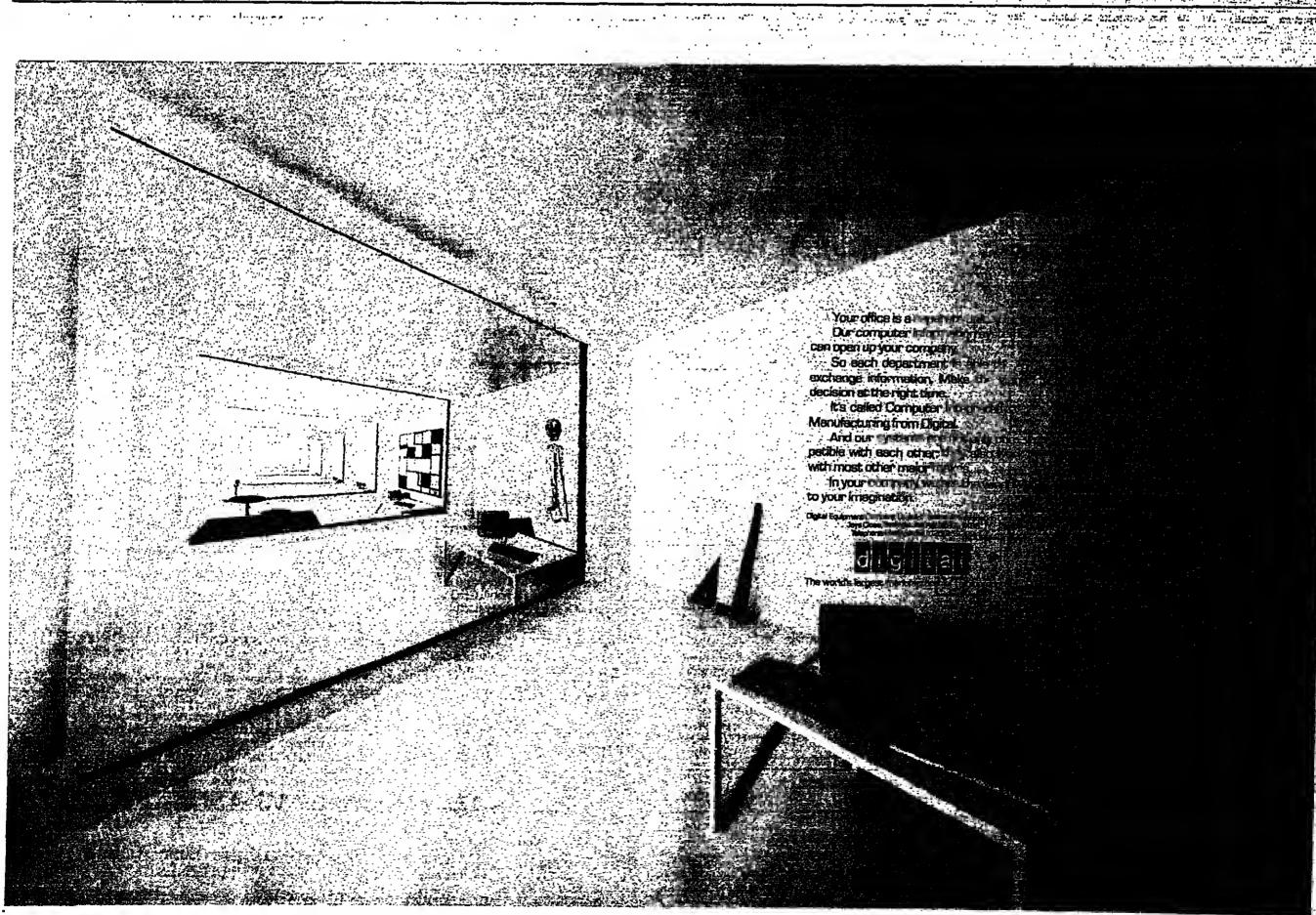
VW group Volkswagen

Audi Total VW group General Motors (Opel)

Fiat Peugeot/Citroen/Talbot

Toyo Kogyo (Mazda)

	JAPA	N		
Domestic Imports Total market	1982 3,002,950 35,564 3,038,514	% 92.83 1.17 100.00	1983 3,100,475 35,336 3,135,811	% 98.27 1.12 100.00
DOMESTIC		1		
Toyota	1,173,850	38.63	1,247,610	39.78
Nissan	822,375	27.06	833,145	26.56
Toyo Kogyo. (Mazda)	247,357	8.17	244,544	7,79
Honda	239,579	7,22	. 245,132	7.80
Mitsubishi .	225,780	7.43	189,369	6.03
Daihatsu .	76,799	2.52	112,216	3.57
Suzuki	\$1,980	2.69	90,969	2.90
Fuji (Subaru)	77.270	2.54	79.481	2.54
pasa	57,949	1.90	57,209	1.84
IMPORTS .				
Volkswagen	. 15,076	0.49	13,227	0.42
Mercedes	5,739	0.18	6.428	0.21
BMW .	5,293	0.77	6,298	0.20
	-,,-			



appointed Mr Michael Mr. as executive director of the size arts and jewellery division. He he comes managing director of the division on April 1 following the retirement of Mr. Jos Cook on March 31.

Mr John Evans had been appointed managing director of EXXON OFFICE SYSTEMS (UK). He was chief erective of Ansafone and prior to lolling EXXON was the managing director of Comdial UK Exam Office Systems (UK) is a wholy owned subsidiary of Exam Office Systems Company, headquartend in Stamford, Com. A strict of Exam Enterprises itself division of Exam Enterprises itself division of Exam Enterprises.

Chambers has been appointed of CHARLES BARKER CITY.

It is director on Mr Elks' retirement.

Mr Jenathan Aitken has become chairman of the Middle East advertising agency.

FIENNES: PERRY AND PARTNERS. He is chairman of appointed a director of GROVES.

FIENNES: PERRY AND WESTROP (UNDER both the board of Sphere per bor of SCANDURA, BBA Group of SCANDURA, BBA Group ment, an associated company.

Menes Six REVE OF £1.2

IN cent EXCH

STRUCTURES

For Offices, Fectories,

CREADON STRUCTURES LIMITED Long Crendon, Aylesbury, Bucks RP18988 Tet Long Crendon (0844) 208481

£8.6m orders for Sir Alfred McAlpine Group

MCALPINE OVERSEAS, a member of the Sir Alfred McAlpine Group has been awarded a \$5.0m apprinci by the Omani
Ministry of Defence to build accommodatable forces at Lanesh
Gratia: Work involves construction of 17 mosty two storey individual buildings, with a total floor area of \$9.00 sq metres, together with external infrastructure and services. The project is to be completed in 14 months.
Sir Afred McAlpine (Sudan)
A.G. has been awarded a \$725,000 contract by Sudan Ren
Chemical Fortilises for the construction of reads, ditches and pavings at its Rhantoun factory.
The contract period is seven months.

nonths. The City of Birminghem has The City of Birminghem has awarded two combacts worth a total of £1.32m to Sir Affred Mo-Alvina and Son (Southern). The chirds are of nine months duration, and first, valued at £1m, is for the chirds the recognisation and improvement of Marsh Hill School, at Hampton Road. Erdington, to form the Josiah Mason. Sixth. Form College. Work in chirds structural alterations to create new facilities and the ungrading of the internal and enternal environment of the building and scheduled for completion in 44 weeks. The escend for the filling and scheduled for completion in 44 weeks. The escend for the EIRO to its full for completion with a seciety near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Douglas Offi IAC and ASAD are bottling factory near Makkah. Hence in chiral and enternal and en

works won by WILLIAM of single 7.3 metres carriageway, with 1 metre hard strips, 0.4 km of single 7.3 metre carriageway, two small roundabouts and one worth over £10m. Work includes a workshop and service facility at Borehamwood for Thorn EMI Elstres Studios (£1.4m) and an office block in Grays Inn Boad with fight level connecting walkfor London and Parts Properties (£668,000). A core store and inchiary building is under constructed by slipform inchiary building is under constructed by slipform inchiary building is under constructed by slipform struction. For The Listitude of Geological Sciences at Keyworth (£2.946m). A combined development at a cost of £900,000. In distinct of associated Diames and Chartestias Properties (Warrington will provide an Asola, superstare and allow de reductions of S2m sivel engineering and building contracts have been won by CEMENTATION.

CONSTRUCTION CONTRACTS

Monk to build £9m Risca by-pass

A 23.7m contract to build the northern section of the Risca and Rogerstone bypass on the A457 in Gwent has been awarded to A. MONK AND CO by Gwent County Council. The contract, to be completed in the spring of 1986, comprises construction of 1986, comprises construction of 1986. 1886, compared in the same of 1886, comprises construction of 3.6 km of dual carriageway from Pontymister to the Full Moon Tip, near Crosskeys. A roundabout will be built at this point with a single carriageway link to the A4048 and A467 roads. This involves construction of a further 1.2 km of new road. Monk will also construct three road bridges, three river bridges, two foot bridges and two subways. Among other contracts recently awarded is a film project for building and civil engineering work for the BOC Group (Cryoplants) on a site at Chinnor Road, Thame.

Contracts totalling £2.5m have been awarded to DOUGLAS companies for work in the Sultanate of Muscat and Oman, and in Saudi Arabia. Douglas OHI LLC has gained two contracts, each worth £750,000, in Muscat and Oman. One is for work associated with construction of an electricity substation in the capital area of Muscat. Douglas OHI is working as subcontractors to GEC. The second contract is for a store for the Royal Oman Police. In both cases contract periods are of nine months duration. Al-Esayi Saif Noman Douglas (ASAD) has been swarded four contracts in Saudi Arabia totalling film. These include a factory for production of roofing felt in Dhahran, ware-houses in Qaseem and Riyadh,

A total of 13.2m civil engineering and building contracts have been won by CEMENTATION WYSEPLAN. Bridlington, has CONSTRUCTION, a Trafalgar orders totalling over firm in the House company. Work includes construction industry for its two contracts at London's Gatsitelink modular accommodation wick airport worth about system. The noise hot together an airport worth about food to provide a settles of different shaped complement. Sites

TENDERS MUST BE LODGED AT THE BANK OF ENGLAND, NEW ISSUES (X).
WATLING STREET, LONDON, ECAM SAA NOT LATER THAN 10:00 A.M. ON
WEDNESDAY, THE MARCH 1984, OR AT ABY OF THE BRANCHES OF THE BANK
OF ENGLAND ON AT THE GLASGOW AGENCY OF THE SANK OF ENGLAND
NOT LATER THAN 2.30 P.M. ON TUESDAY, 5TH MARCH 1984.

ISSUE OF £1,250,000,000

10 per cent EXCHEQUER STOCK

1989

MINIMUM TENDER PRICE £98.00 PER CENT

if management.

If management is principal of and injurest on the Stock will be a charge on the National Losse of the recourse to the Codentidated Fund of the United Kingdom.

Stock will be repaid at per on fer August 1888.

Stock will be registered at the Bank of England or at the Bank of Ireland, itset, and will be transferable. In multiples of one penny, by instrument is thing in accordance with the Stock Transfer Act 1983. Transfers will be free extense favor.

Select, and will be payable beli-yearly on let February and let August, moome tax interest will be payable beli-yearly on let February and let August, moome tax will be deducted from paymonts of more than 55 per annum. Interest warrants will be deducted from paymonts of more than 55 per annum. Interest warrants will be transmitted by past. The first interest paymont will be made on let will be transmitted by past. The first interest paymont will be made on let will be transmitted by past. The first interest paymont will be made on let first interest the state of the state of the first paymont will be made on let first interest the first fir

bridge over the River Mole for the Thames Water Authority will start shortly, and in Jarrow, a £570,000 raif bridge will be built in four months for British Rail. For the Property Services Agency, £1.km contract is under way for construction of steel-framed buildings at ROF Glasgoed, Usk, Cwent.

WIMPEY CONSTRUCTION UK has been awarded a two stage contract worth £13m for a supermarket, retail units and a car park in Hill Street, Saffron Walden. The part management fee contract is placed by Hunting Tests. Postulary and comfee contract is placed by Hunting Gate Developments, and comprises a brick clad structural steel and reinforced concrete frame supermarket sales and warehouse area. Their combined area will be 2,334 sq metres with 997 sq metres of shops and a 356 space two-level reinforced concrete cer park. Work has started and contract stage one is due for completion mid July 1984 and contract stage two by April 1985.

Shepherd wins £8m work

SHEPHERD CONSTRUCTION has secured contracts worth over 18m. Largest is for construction of a community bospital et ilkeston, Derbyshire, for Trent Regional Health Anthority, with a contract value of over £4.5m. The bospital will provide 92 beds together with operating theatre, and day patient facilities Shepherd Construction is the main contractor for British Telecom for the Telephone Engineering Centre et Milton Keynes. The contract value is over £1.7m. At Treforest, the company is main contractor for an officers mess, gate house and edministration building at HM Prison, Cardiff, for the Home Office, The contract value is £1.6m. Site work has started and is scheduled for completion in July 1966. has secured contracts worth over

Three orders worth over £5.5m for re-roofing, cladding and pstent glazing have been won by RUBEROID CONTRACTS. Already in progress is the re-roofing of a 27,000 square metre factory building for Ford at Dagenham worth £1.6m; ebout to start is a £3.5m contract et Hesthrow for the British Airports Authority's new Terminal 4 building where the sidewall, roof and soffit cladding, internal linings and ceilings is being installed on the 16 enclosed lobbies, ramps and walkways that connect the main building with the surrounding 16 aircraft stands. The installation of £600,000 worth of Ruberold Patent Glazing for the new 4,490 square metre tropical greenhouse at Kew Gardens designed by the Property Ser-

the Post Office new north west district office in St Pancras Way, district office in St Pancras Way, NWE. For a company usually associated with glass buildings, this contract is unusual in that the bulk of the infill materials will be brown and buff colour vitreous enamel insulated panels. This project will also use its recently introduced range of fully-reversible aluminium windows in "Post Office" red. Work starts on site in June to complete starts on site in June to complete curtain walling ni six months.

Main contractor is Costain Construction.

Contracts worth over £4m for house building and maintenance in Greater Manchester bave beed won by ROWLINSON CONSTRUCTIONS of Poynton, Cheshire. The largest is a £2.07m contract to build 87 homes in a clearence area for the City of Manchester. The 78-week contract has started. In North Reddish, Stockport, Rowlinson is building 63 retired people's flats under a £1.4m contract for the Johnse Johnson Housing Association of Johnson Housing Association of Bramhail, Stockport. Work is ex-pected to last 78 weeks. Rowlin-son is refurbishing 41 council homes at Heaton Mersey under g 36-week, £333,500 contract for Stockport Metropolitan Council, renewing kitchens, bathrooms and wiring, and adding central beating. Finally, Rowlinson has set up a bouse repair unit for Salford City Council to respond to day-to-day requests for council bouse repairs. The six-month cootract is worth about £200,000.

MOWLEM industrial projects division has been appointed by Racal-Millicom to design and construct base stations for a cellular radio public telecommunications service planned to become operational during 1985 An initial two-year cootract worth over £2.5m has been placed for 100 base stations.

BALFOUR BEATTY CON-STRUCTION has been awarded the following contracts: Excava worth £1.7m for the development of 8 civic hall, shops and offices at Redhill for Norwich Union Life Insurance Society. Construction of 8 four-storey office block of 2,925 square metres floor area, worth £1.4m, at Redhill for Embassy Development (Holdings). Phase I extensions, worth £138,000, to Bramley Bus Garage, Leeds, for West Yorkshire Passenger Transport Executive, Alterations to an existing office block worth £133,000, prior to 8 Attendons to an existing once block, worth £133,000, prior to a major development at Hatton Cross, London, for London and Metropolitan Estates.

HIGGS AND HILL has started work on B £3m management con-tract with the U.S. Marriott Corp for refurbishment of the London Marriott Hotel (formerly the Europa) in Grosvenor Square, WL The contract, including removation of the ballroom in less than three weeks, is due for completion in late 1984. The project also comprises conversion on site, side by side or end to Adaports Authority for extension end to provide a series of different shaped complexes. Sites the other is for British Rail on include a paper mill at Shotton, the Catackek Station concourse, and a new prison at Full Sutton. At Esher a £750,000 contract to near York.

Ject also comprises conversion and upgrading of existing guest-rooms, including 8 floor of suites, the entrance ball, laundry, kid-then for its patented curtain demolish and reconstruct e road walling system. Over 6,000 and demolish and administration offices.

Until the slose of business on 27th June 1984, Stock issued is accordance with this prespectus will be known as 10 per cant Exchequer Stock, 1989 "A". The laterest due on 1st August 1984 will be peld separately on holdings of the existing 10 per cent Exchequer Stock, 1989 and on holdings of "A" Stock as at the close of business an 27th June 1984; consequently, interest mandetess, suthorities for income tax axemption end other notifications recorded in respect of holdings of existing Stock will not be applied to the payment of interest due on 1st August 1984 on holdings of "A" Stock.

The last date for lodgmest at the Bank of England of transfers for registration as "A" Stock will be 25th June 1984. After this date, for purposes of certification, the "A" Stock will not be distinguished from the existing 10 per cent Exchaquer Stock, 1988. From the opening of business as 28th June 1984, the "A" Stock will be emalgamented with the existing Stock.

Tender forms and copies at this prospectus may be obtained at the Back of England, New Issues, Watling Street, London, ECAM BAA, or st eny of the Bank of England, 25 St. Vincant Place, Glasgow, 21 285; at the Bank of freiend. Mayne Suildings, 1st Floor, 20 Callender Street, Belfast, BTI 588; at Mullens & Co., 15 Moorgate, London, ECAM BAA, or Stock Exchangs is the Usited Kingdom.

BANK OF ENGLAND

Deposit with tendar

This Stock is an investment failing within Part if of the First Schedule to the Trustes investments Act 1981. Application has been made to the Council of The Stock Exchange or the Stock to be admitted to the Official list.

This Stock Exchange or the Stock to be admitted to the Official list.

The SOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorised to receive tenders for E. 20,000,000 of the above Spock; the balance of £250,000,000 has been reserved for the National Dobt Commissioners for public funds onder their resusseguence. BANK OF ENGLAND LONGON 2nd March 1984

THIS FORM MAY BE USED TENDER FORM

ISSUE OF £1,250,000,000

10 per cent EXCHEQUER STOCK

MINIMUM TENDER PRICE £98.00 PER CENT

TO THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND (//We tender in accordance with the terms of the presper Merch 1984 as follows:--1, NOMINAL AMOUNT OF STOCK

E1,000-210,000

E10,000-210,000

E10,000

Har Malestry's Treasury reserve the right to reject any tander or part of any tenders and they therefore allot to tenderen less than the trill amount of the Stock. Finders will be reasury deplete that any tender of price and allothetics will be made as those tenders and the stock of the ellothetic and part of the ellothetic and ellothetic ellothetic and ellothetic an PLEASE USE BLOCK LETTERS

FORENAME(S) IN FULL COUNTY **POSTCOOE**

9 TENDER PRICE (b)

"If you're going to do business in America, the place to start is Chicago, Illinois.''

Linton Atkinson Vice-President Crompton Instruments, Inc. A subsidiary of the Hawker Siddeley Group

Crompton Instruments is a world leader in the manufacture of measurement instruments.

In the early '70's, Crompton decided to market its products in America. They went looking for the optimum location, and in 1973 opened their new U.S. facility in Elk Grove Village, Illinois, just a few minutes away from Chicago's O'Hare International

In 10 short years, Crompton's Illinois facility has tripled in size. Crompton is looking forward to a most promising future.

What brought Crompton Instruments, inc. to illinois?

An unbeatable combination of advan-

Centrally located in the U.S., Illinois offers excellent transportation connections and good communications

Illinois

is coming to

London

On March 19, the Governor of

Illinois and his economic

development staff will be holding an investment seminar on Illinois

at the U.S. Embassy. If you'd

like to attend, contact the

American Chamber of Commerce

(UK), telephone: 01-493 0381.

to the entire U.S., making it an Ideal location for manufacturing, distribution and headquarters

Located in the midst of the largest consumer and industrial markets in the world, it offers unparalleled opportunities to growing companies.

Illinois can also assure you access to the resources your company will need to prosper. Coal, natural gas and nuclear power provide abundant energy. Excellent universities and vocational edu-

> cational Institutions guarantee ample manpower for both manufacturing and research and development. Major banking, legal, accounting and insurance firms with international affiliations are readily available. Illinois' high quality of life makes it a good place to live and work for your employees. And Illinois' strongly

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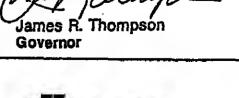


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Technology management

Why Buffalo is back on the map

Christopher Lorenz examines Warner Lambert's revival in scientific instruments

turning the tables on the Japastandard laboratory micro-

12

happened at a plant owned by Warner-Lambert, the large U.S. pharmaceutical and medical equipment conglomerate. Just two years ago the boot was on the other foot, and its micro-scopes, once the pride of the company, were being undercut better and cheaper ones

In microcosm (as one might mann's. say), the turnaround represents the much-vaunted—but as yet largely unproven—ability of American industry to win back vital ground that it bas lost to Japan. It also epitomises tho importance of a difficult step along the way: combining a company's business strategy with a key element that, surprisingly enough, is frequently missingsophisticated technology tegy which embraces earch, development, en-

gineering and production. The strategy through which Warner-Lambert is now regain-ing market share in microscopes is almost entirely con-trary to the one it originally planned to use, but which would have failed on technological groun's. So is its new, winning strategy in the much higher-technology market for fibre optic medical instruments (endoscopes). Different, too, is the way it is now defending its position in opthalmic instruments.

product lines constitute Warner-Lambert's scientific equipment division. The unit's new strategies and actions have set two years from now (without acquisitions) are expected to be a third up on 1982's \$125m, and its pre-tax profit double that year's \$21m.

Under the original plans, sales and profits were both expected to fall slightly — which would almost certainly have resulted in the division going the same way as the rest of what used to be called American Optical,

IT'S HARD to imagine a factory in Buffalo, on the very fringes of smokestack America, Warner-Lambert divested itself Warner-Lambert divested itself nese and starting to make pro-ducts which are not only at spectacles, contact lenses, sun-least as good, but cheaper. High glasses, medical monitoring technology ones, perhaps, but equipment and industrial safety not "mature" things such as products. "We were quite prepared to sell the instruments opes.
Yet this is precisely what has portfolio managers", says Warner-Lambert's president, Joe Williams, an enthusiast for strategic portfolio planning. The businesses of his \$3bn corporated range from ethical drugs to Schick razors, and Listerine. mouthwash to chewing gum.
Until two years ago it also
owned one of the largest bakery companies in the U.S., Enten-

THE MANAGEMENT PAGE

The sdding of a new technology dimension to Warner-Lambert's existing business planning system and the reversal of its original strategies for almost every type of scientific instrument, was the work of Booz Allen & Hamilton, the management consultancy. The success of the changes has spurred Williams and his leagues to give Booz Allen further assignments of a similar nature in various parts of the

Along with a host of other consultancies, Booz Allen had worked for Warner-Lambert on a range of more conventional jobs in the past, but was first called in on what it calls a fully-fledged "technology management" project in late 1981, two years after it had gone public with a package of techniques that improve the link between a company's technology strategy and its business plans.

All too often, this crucial link Taken together, these three Harris and Dr William Sommers, two of Booz Allen's senior partners: "We have continually found mismatches between our clients' strategic objectives and their technological investments. Inadequate investment, excessive investment, and improper (unbalanced) investment allocation are all common," they say.
"Generally, a business portfolio is product-oriented," say
Harris and Sommers, "It mea-

sures a firm's product lines in terms of market position and terms of market position an unrealistic or universes technology portfolio defines the picture of market attractiveness technology portfolio defines the picture of market attractiveness and competitive position." to be called American Optical, firm's various product and pro-



Don O'Neill (left) and Joe Williams: riding high in medical optics

"marketplace position" (including against competition), and of their in portance to groups of product lines.

As Harris and Sommers emphasise, the reasons for linking the business and tech-nology portfolios, and ensuring their consistency, are compel-ling. "If they are incompatible, a company runs the risk of developing a potentially attrac-tive strategy based on financial data and other business . . . information only to discover that it lacks the technology strengths needed to achieve its objectives. On the other hand, when analysed in isolation, a technology portfolio can provide

subtants were initially called into Warner-Lambert . to Warner-Lambert to examine its strategy for fibre optic endoscopes—long hundles of fibres which enable a patient's innerds to be examined. The dramatic results of the consultants' work then prompted Don O'Neill, president of the corporation's Health

Technologies Group, to extend their work to the rest of the scientific instruments division. In each case they applied Booz Allen's standard four-part technology planning process. Making a technology assess-

ment by internal and external scans of trends in all the criti-This involved extensive survey Harris and his team of con- Developing a technology port- Friday.

FRER OPTICINSTRUMENTS (Endocopes) HOSPITAL PHYSICIAN MEDICAL DESTRUMENTS Conhamily THERAPEUTIC ALLEGATION DIAGNOSTIC folio (or matrix) to assess the company's strengths and weak-nesses, explore potential alter-natives or "plays," and define STANDARD Integrating the emerging EW PRODUCT DEVELOPMÊN nology strategy with the day business strategy,

> THE most dramatic impact of the Booz Atten work was on fibre optic endoscopes and on

• Setting technology invest-ment priorities for each techmicroscopes.

1 Endoscopes. The market has two segments: hospitals, where the endoscope is used nology and each part of the The detailed impact of the consultant's work is explained in the inset and chart (see right). One of O'Neill's vicepresidents. Kirk Merritt, says that in all the various projects their matrix work was pivotal. It gave the division technological direction, especially on how to live with the

Jananese " Merritt admits that the Booz Alien planning process filled an in-house gap not only by examining "the competitive marketplace", but also by "directing us towards the next technological platform". Neither of these types of analysis and priority-setting is easy for a company to conduct without external help.

O'Neill and Williams may be

strategy.

adjustments being made on both sides using what Booz

Alien calls a "commercialisation

especially enthusiastic about the success of the new endoscope strategies, but it seems to be the microscope project which won the consultants most friends down the line at-Warner-Lambert. One executive after another praises their skill "reverse-engineering" Japanese microscopes - stripping them down and borrowing ideas from them, in true Japanese

existing

In terms of the ambitious complexity of the rest of Booz Allen's work on technology strategy, this was actually a pretty straightforward exercise. But as a symbol of the way Warner-Lambert is fighting back against the Japanese, it is extremely powerful. No wonder that, within the corporation's glossy headquarters in New Jersey, America's "Garden Jersey, America's "Garden State", the Buffalo factory is no longer, seen as "out, in the sticks", but is now well and traly on the map.

This is the second of two

on technology m The first appeared on CÔST REDUCTION

hody, eften during surgery; and doctors (physicians), where the performance requirements are lower as the instruments are shorter, and where cost plays a more important role.

A comparison was made between the product line's position on a product/market matrix (the abiquitous "business portfolio"), and its place on a technology matrix. This showed that though the hospital market in itself was attractive, Warner-Lambert was not in a strong position, either technologically or in terms of market share. Especially against the com-petence of its main competitor, Olympus of Japan; it lacked the sophisticated tech-nology to produce long, highresolution, defect-free fibre bundles, and was falling further behind.

"This was totally contrary to the company's view," recalls Harris. "It thought it had been extehing up."
Booz Allen therefore recommended its client to curtail investment and withtraw from the market. O'Neill confirms that "the company's feeling had been that we should mount a major attack

on Olympus." Booz Allen

raded it that this would be highly unwise. In the physician segment, the company's starting posi-tion was much better, in terms both of market presence and technological capabilities. With its main competitors, focussing on hospitals, the consultants advised Warner-Lambert that, through pre-emptive investment, "it could-achieve business and tech-

With a much-reinforced investment programme, two

launched and "the whole strategy has been very me-cessful," according to O'Neill. "It opened a new window for us in fibre optics," says Joe

Williams; previously all the windows had been closing 2-Microscopes. Using the clinical products of its Austrian effshoot, Reichert, as a base, Warner-Lambert had been planning to confront Nikon and Leitz. But both competitors were much stronger, in technology as well as in market share.

In standard microscopes too, Warner-Lembert had too, Warner-Lambert had been going for greater sophistication, while the Japanese continued to beaver away beneath it, annexing more and more of its market with low-cost products.

So, in advanced micro-scopes, Beaz Allen recom-mended that the technology programmes of the division's existing European and U.S. companies be integrated and redirected towards new low-cost products. This would allow a lower level of total investment and offer a higher potential return. To strengthen the division's technology base, it recommended an acquisition; last August Warner Lambert acquired McBalu, a small but leading manufacturer of high precision microscopes.

On standard microscopes the consultants recommended heavier investment, but in cost-reductions to the existing products rather than in the development of new ones.
This would allow it to recoup
"cost leadership". from the
Japanese, and with it market share. Warner-Lambert took the advice, reducing the ber of working parts by a third, replacing some metal components with plastic, and so forth. Within six months it was marketing a lower-cost product, which has indeed stopped the rot.

Management abstracts

Negotiators abroadegotiators abroad—con I shoot from the hip. J. L. Graham + R. A. Herberger in Harvard Business Review (U.S.), July

Argues that Americans being "competitive, arguments, tive and impatient"—make bad negotiators when dealing with negotiators when dealing with neon-Americans; gives examples of how the "shoot-first-ask, questions-later" style can create difficulties overseas; discusses how these could be eased and points to implications for negotiator training.

Quality is more than making a good product. H. Takeuchi and J. A. Quelch in Harvard Business Review (U.S.), July.

quality control has tended to concentrate on worker motivation and the production process; argues that the best products can fail if they do not fit the customers perceptions of high quality or if the appropriate after-safe service is unavailtable and urges constant monitoring in tiese two areas.

Tespes minuscriment: J. Johnson Istines mismagement: J. Johnson in Business Quarterly (Can-ada)), Antumn 83.

Defines issues management a the early anticipation—birough scanning/monitoring—of threats; and opportunities embodied in cocio-political issues, their iden tification/evaluation/analysis by a task force; followed by the subsequent planning and inplementation of strategies. Iden-tifies obstacles and advises how to " self " the approach to operational management :-

Pensions during talloovers and mergers. R. Jagelman in The Accountant (UK), 1 Dec 83.

Describes pension fund in plications of a company takes over and outlines some typical pension agreements covered in a sale agreement; focuses on the impact of a takeover on past and future pension rights, and on the fund trustees.

in the managers trust in fore-casting. A. B. Maltz in The Journal of Business Farecasting (U.S.), Anturin 83. Explores issues which business forecasters must face if they are to win management's confidence—ability to make themselves intelligible, accuracy, and fitting forecasts to organisa-

tional needs.

These abstracts are condensed from the abstracting
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September 12,1984 Energy Management October 3, 1984 World Oil

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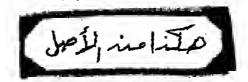
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THE ARTS

Jumpers/Royal Exchange, Manchester

Michael Coveney



Tom Courtenay and Julie Waters

landings have destroyed romance, and, by extension, her career as a singer of romantic songs, is absolutely murder mystery thriller of for just at the play's climax chasm logical positivists. One of them are the victims of bis own ran-is shot eway from a pyramid domly distributed physical party. The Radical Liberals Stoppard's complex sight-gags first-rate; matching eccentricity and desperation in much inster proportions than did Diana Rigg at the National Dotty's bedroom and George's party. The Radical Liberals bave swept to power, a veterinary surgeon is appointed Archiblshop of Canterbury.

Dotty is out of tune with the times, and the band, her breakdown relieved only by visits to her bedroom by the vice-chancellor, Archie (played with impeccable suavity by John Bennett), and fleeting charades with which the pulls wool over the jumper's corpse whenever the jumper's co study have to be noisily trucked

atudy have to be notally trucked in, but an audience quickly adjusts to this convention and Nicholas Hyner's vigorous and intelligent production—one of the best at this address for some time—lays, out the play with exemplary charity and allows you to enjoy the myriad felicities of Stoppard's Invention, be they physical linguistic or, as is frequently the case, both.

Impers is a farce about the loss of faith, or the quest for God, however you care to look at it. It is about belief and rationality and it also explodes the language of moral philosophy in a cascade of wit while slimultaneously developing a street of the case and the band, her break down relieved only by visits to her bedroom by the vice-chanted on a splendidly Expressionist fanale at the symposium, where botty descends on a silver spangled moon and we are triumphantly assured that man has sone ape.

Mr Gourtenay descends on a silver spangled moon and we are triumphers is a farce about the sumper's corpse whenever george absent-mindediy in wades her space. Dotty's own from Alan Bennett impersonation, but finishes in a splendid rage against the world and its philosophers, a rage be has called Duncan, bence the Machine in the in-the-round treatment, but Mr Hytner gets away with most of them and drives the evening on to a splendidly Expressionist fanale at the symposium, where botty descends on a silver spangled moon and we are triumphers to a farce about the jumper's corpse whenever george absent-mindediy in wades her space. Dotty's own from Alan Bennett impersonation, but finishes in a splendid rage against the world and its philosophers, a rage be has called Duncan, bence the Machine in the play and it also explodes the close of moral philosophers a rage be has called Duncan, bence the Machine in the in-the-round treatment, but Mr Hytner gets away with most of them and drives the evening on to a splendidy Expressionist fanale at the symposium, where Dotty descends on a silver spangled moon and we are triumpers to a farce about the jumper's corps wh

illogical plausibility. The team when George'a illustrated lecof yellow-suited jumpers are ture props of a tortoise and hare

Stoppard's complex sight-gags the in-the-round treatment, but the in-the-round treatment in the in-the-round treatme

both leading actors convey in a marriage that should never have gone wrong: Dotty and George, in fact, are both guerdians of traditional, worthwhile values which have been placed under grave threat by advances in religion and phllosophy, lu space and on

ou how similar to Truscott in Loot was the stage-struck policeman Bones (whose brother, an osteopath, suffered from cognate syndrome—a specialist aree of Archie's—changed his name to Foot and then became a chiropodist). Barry Jackson, who obviously had no choice in his career, plays Bones, while John Gay (I didn't say a thing) is, in e ueat piece of casting, Crouch, George Moore, in this production, is not the only name with which to conjure. on how similar to Truscott in

Orpheus and Eurydice/Leeds

Max Loppert

The virtues of Opera North's first-Guick productive, revealed on Saturday, are wery largely musical, The shifting of this one of the entirely satisfactory of pera cheese, leave leaves, leave leaves, leave leaves, leave leaves, leave leaves, leave leaves, leaves,

wife Dotty, for whom the moon

the secret of successful in a way that avoids all sugGluck conducting lies in the gestion of the lacbrymose.

(She cedes her Elysian Fleids a revival of Strange Interlude neither fast nor slow (though air to Susan McCulloch, a it may be eitherly inevitable in dramatic cupid—or a young stranger conlext, that allows words and size becomes here—is pure and music to breathe with both the stylish, perhaps not ideally pulck sentience and the ampli- bright of timbre.

All Calle IICWS III OFICE

Glenda Jackson is to star in ville Theatre on April 4. Starring Patricia Hodge, Oliver contents one woman's one woman's search for identity over a period of 30 years. The cast includes Brian Cox, Edward Petherbedge of 30 years. The cast includes Brian Cox, Edward Petherbedge of 30 years. The cast includes Brian Cox, Edward Petherbedge of 30 years. The year of the relationship between the play of the relationship between the relationship be quick sentience and the amplibright of timbre, tude of phrasing they properly. All this, and Andrew Porter's require. On this abowing, Mr. admirably skilful new English Eleyd-Jones possesses that translation, are the raw command; whatever may have material for what might have been taking place on stage, and been a bold, fresh, and undespite the decision to play the clustered account of a work that been taking place on stage, and been a bold, fresh, and un-despite the decision to play the cluttered account of a work that work without break musical for all its fame and popularity interest was never allowed to notoriously resists complete fing nor the orchestral tone to theatrical success. In Philip lose its airy limitidity, the very Provide's production played in simplicity of Gluck's invention his own designs, that success

Brian Cox Edward Pether-bridge and James Hazeldine. Strange Interlude opens at The Duke of York's Theatre, London,

Richard O'Sullivan, Tim Brooke-Taylor and Bernard Bresslaw take over the leading roles in Run For Your Wife at the Criterion Theatre from

Three one-man plays by the actor Jeck Klaff are being presented at the Donmar Warehouse until March 10. Cuddles, a play about relationships between men and women which won a Fringe First at Edin-burgh in 1982, and The Fifty lose its alry itinoidity, the very Prove's production, played in simplicity of Ginck's invention his own designs, that success the Criterion Theatre from Sounded as it always should is kept tantalisingly out of Cont. In the theatre, quite often reach. As in every Provse doesn't he product of revo staging I have seen the visual lutionary genius.

Bresslaw take over the leading roles in Run For Your Wife at the Criterion Theatre from March 12.

Minute Hour, an essay on psychoanalysis are being performed from Tuesday to Saturdays, and on Saturdays Nagging Doubts, "an assault" on South A new play by Michael Frayn, lutionary genius.

A new play by Michael Frayn, Renefactors, opens at the Vande-

The worst show I bave seen

New Galileo/Apollo, Oxford

Clement Crisp

Siobhan Davies' new work for until the movement's patterns Oxford during the latter part of last week. I think the specious dance area. This imperceptible Apollo Theatre stage suits the mechanical action is matched by plece, for an undercurrent of the gradual shifts of the minits ploiless action seems the malist piano score — John wey a dancer occupies space, Adam's Phrygian Gotes—whose bow movement may spread or quick finger patternings suggest contract, intruding into areas of Czerny or Kalkbrenner having a others activity, and how our per-ceptions about movement may board, and are superbly played

be guided.

Like much of Miss Davies'

choreography, New Golileo has an air of intellectual calculation through the dry and exhausted through the dry and exhausted with beblud them skewed panels which show a daucer in a sludio, which show a datacer in a shoot, some birds, and what might be the top of a creme bruke, all gradually focused during the course of the dance.

At curtein rise the stage is divided, Gaul-like, in three equal parts, with Jonathan Lunn alone in the ceutral section. The developing action finds the seven other members of the cast four couples in effect.

tha Londou Conlemporary gradually cross the stage and Dance Theatre was on view in we also become eware that the

and air of intellectual calculation through the dry and exhausted and of precise judging of dynamics. Her fine-tuning of spatial rigour (that curse of the Brilish considerations is also clear in the design and lighting by David Buckland and Peter Mumford, gains energy, New Golileo rewho have divided and illuminaled the stage as three lateral cootrolled and sometimes sections by means of two spidery cerebral effects, but these are of gantries carrying light battens, increasing power, and the four with beblud them skewed panels male solos, which presage the increasing power, and the four male solos, which presage the final reunion of the dancers in tines of sweeping movement are very impressive, and very im-pressively done by Jonathan Lunn, Dersban Bbuller, Michael Small and Patrick Harding-

I did not suppose that New Galileo would yield up its secrets at a first viewing: I look forward to renewed acquaincast—four couples, in effect—teuce during LCDT's May season first dancing only on stage right, at Sadler's Wells.

Power of Darkness/Orange Tree

Martin Hoyle

Originally banued by Tsarist ground to the baby's murder Russia, Tolstoy'e best-known emerge as no more than turns play boasis at least two scenes as spine-tinglingly tense as any in European drama in the past rentury. century.

wife and is overcome with removes and pity. Nelther man go round without ever lapsing realises that the landowner is into mummerset. Roberta

anguished impotence as bis mother contemptnously

and the off-stage wedding cele-bration that forms a back-

ground of folk wisdom and In one, a dying farmer begs forgiveness of e worker he has treated harshly. The youth is the secret lover of the farmer's exposition of bow capital and

realises that the landowner is the victim of poison administered by his wife and provided by the boy's mother, a rapacious crone with plans for her sou's future.

The thought of opera recurs in the climatic sequence, brutally cathartic, when the young man crushes a new-born infant to death with a plank and is urged to bury it in the cellar by the two women. Haunted by its wailing and the sound of its "little booes crunching," he collapses inlo anguished impotence as bis into mummerset. Roberta Taylor's adulterous, finally deserted, poisouer is slightly underplayed as if nervous of the part's full implications; similarly Eva Shickle's terrible old mother can score points with a casual throwaway approach to such moments as when she tosses the lethal powder on to the table in a conversation about sleeping draughts, hot draws hack from the full monstrousness of the many conversation about sleeping draughts, hot draws hack from the full monstrousness of the many conversation about sleeping draughts, hot draws hack from the full monstrousness of the conversation about sleeping draughts, hot draws hack from the full monstrousness of the conversation about sleeping draughts, hot draws hack from the full monstrousness of the conversation significant to many conversation about sleeping draughts, hot draws hack from the full monstrousness of the conversation about sleeping draughts, hot draws hack from the full monstrousness of the conversation about sleeping draughts, hot draws hack from the full monstrousness of the full monstrousness

near-simpleton stepdaughter, cleft palate much in evidence as she smarls knowingly at her father's suspected killer, incisively confirms the impression hole herself.

At the Orauge Tree, Sam ively confirms the impression walter's direction could throw she made recently in Night-shade's funereal goings-on at the King's Head. And Garry relief—the intrusive visit of a Cooper, self-indulgent, sensual, neighbour as the brutally selfish, and at the last taking the sins of others upon teking the sins of others upon himself, is entirely worthy of

Architecture

Gillian Darley

Lionization and the price of fame

From Thursday, the RIBA's Heinz Gallery, in Portman Square, plays host to an exhibltion of work by Michael Graves. Though there are models, line drawings and some plans, the large parl of the ex-hibition consists of misty, coloured pencil drawings displayed in a gallery specially transformed by Graves into a suitably tonal setting.

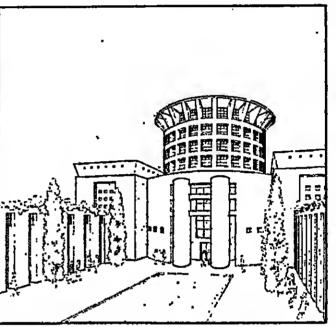
Michael Graves is something of a phenomenon: be is the erchitect as superstart and also the man who made the architectural drawing as "collestible" in that awful American term.

Whether as erudite, not to say recondite, professor, painter say recondite, professor, painter and furniture designer, or practising architect. Graves is very closely watched indeed. His kind of stardom may bring ecolytes, not bodyguards, disciples, not fans, but in most respects it is not so far from other forms of fame. Now attention focuses on him wilh particular reason; be is, at last, building large schemes and building large schemes and of them feature in the exhibi-tion although it takes e considerable meutal effort to connect thesa veporous Images with the activity of construc-

These dainty drawings are these dainty drawings are both self-conscious art object and diary—and in the latter case very much for publication. It is vie his drawings, and the strength of his reputation as an intellectual architectural academic (he has taught at Prince-ton since 1962) that he became

widely known—particularly from the early 1970s. The two activities link his peuchant for elaborate ert historical references: in the Cubist (the cubism of Juan Gris, revealingly, rather than that of Braque or Picasso) but more recently he has dived headlong into classicism, in particular Mannerism, with wiffs of the Egyptian, of the arcadian. even of Mussolini's EUR enlivening the mixture.

These drawings should not however, magple their sources and tasteful their presentation,



modern architects heve joined hands around the world to pro-duce a plethora of Gravesian detail—pergolas, lattice gridded door and window details, Man-nerist inversion of the clessical repertoire (with the keystone supreme) and much more. Architectural lionisation is, unless you follow the example of James Stirling and keep your head well down a tarrible fate.

head well down, a terrible fate. The question, elegantly and justly raised by Vincent Scully in his assay in the recently published Graves monograph, is whether the desires for both ollusion and illusion can provide architecture convincing at the level it will be experienced by its users. Scully found the work of the 1970s "a little sad... attunded to theatrical optical effects and illusion." But in his

ings to polycbrome reality, it is hard to agree.

In the exhibition the scheme which most closely parallels the Portland building is the 27-storey Humana building in Louisville, Kentucky — now under construction. Wou in comparition with Norman Feeler petition, with Norman Fosler placed second, it is hard to avoid seeing a formula emerging — the ritual dance around the entrances, the uneasy tinkering with parapets and skylines, sections of the skiu peeled off or reinstated.

Much more telling, for an

view, faced by Graves' first com-

axis. Was Graves looking at the Pantheon, Roman tombs along the Appia Antica or was it to France, with Ledoux? It is au irresistable game; but bere the references and the arrogance pay off. It is a scheme of substance and suggests the kind of gravitas that suits a cultural shrine of middle America. compares with it, as architecture — or as expression of language of Michael Graves.

At Vassar be bas falled to deal with the existing collegiate Gothic, adding an awkward block for the Art History Department which looks eccidental a michael as the state of the sta Department which looks eccidental, a mistake. Elsewhere there is a Pompeian-style Environmental Education Centre, in New Jersey; plans for four Schinkelesque town houses in Cincinnati; the refronting of a Tokyo department store and a vast riverside commercial development in San Antonio Tevas

Antonio, Texas.

The Graves office is working flat out. Just a few years ago it handled small, mostly Courtyard of the Ohio State University Visual Arts Center
be underestimated. Across the architectural schools of tha U.S. and Europe a swathe of students learned to draw up their schemes the Graves way while, with his example, among olbers, to band, self-tyled Postmodern architects here ioined hands around the world to proreactions, but he begins to look like a one-man Battle of the Styles and the loss, I fear, will be the reputation of Michael

Russ Abbot's West End debut

The TV comediau Russ Abbot is to make his West End stage debut in May when he stars in much more telling, for an architect who looks to Italy for what be terms "archetypical elements" is the Visual Arts Centre for Ohio State University, Columbus, Ohio. This is centred on a great rotouda, a drum which is both focus and formal entrance and debut in May when he stars in a new production of the Nell Simon musical Little Me. He will play eight parts in the musical, which tells the story of a seedy nightclub singer and rotouda, a drum which is both focus and formal entrance and

Arts Guide

Music/Mondey. Opera and Ballet/Tuesday. Theatre/Wednes-day. Exhibitions/Thursday. A selective guide to all the Arts ap-

pears each Friday.

Music

BRUSSELS

Ruggiero Ricci, violin, and Roger Vig-noles, plano, Beethoven, Bach, De-bussy, Ysaye and Saint Saens (Tue). Phlats des Beaux Arts: raias des Beaux Arts.
Rotterdam. Philharmonic Orchestra.
conducted by Edy de Weart with Yuzuko Horigome, violini. Mozart, Piston, and Mendelssohn. Palats des
Beaux Arts (Thur).

ZURICH

Tombelle: Tombelle Crebestra conduct-ed by Olivier Chendet with Dawn Reinhart, trompet Mozart, Haydn, Francoix and Ravel (Wed); Trio di Milano, Haydo, Shostakovich and Dvorak (Thur).

Loaden Philhermonic Orchestra con-ducted by Jesus Lopez-Colos with Cho-Ling Nin, violin Mendelssohn and Brahms (Tue). Royal Festival Hall (22 3191).— BBC Northern Singers conducted by Stephen Wilkinson with Keith Swal-low, plano. Schumann, Vaughan Williams, Holst and others. Queen Elizabeth Wall (Tue). (22 3197).

Williams, Holst and others Queen

Elizabeth Hall (Tue) (2283191).

Coull String Quartet: British String (561 0630).

Quartet series. Purcell Rnom Rudolf Fricasny, plano: Schubert, (523191). (The Spm.)

London Mozart Players conducted by Harry Blech with James Watson, trumpet and Claudo Frank, plano.

Mozart Haydn and Besthoven. Roy al Festival Hall (Wed):

Elward Headh conducts the London Concert Orchestra with Felix harpsichord: Bach (Thur 12.30 am

Schmidt, cello Mozart, Tchalkovsky and Beethoven. Barbican Hall (Wed). (6388891). PARIS

Orchestre Colonne conducted by Kurt

Orchestre Colonne conducted by Kurt Redel, Colonne Orchestra Choir con-ducted by Jean Sourisse: Haydn's Creation (Men), Salie Pieyel (551 0630). Glenn Gould, piano – projection on video screen of B. Monszingon's film: Bach (Tue), Salle Pleyel (551 0630). (561 0530). Insemble Orchestra de Paris marks

the 10th anniversary of Darius Mil-haud's death: Milhand, Lisat, Beathoven (Tue), Salle Gaveau (503 2030). Wilhelmenia Fernandez, soprano: Classical music and Spirituals (6.30

pm Tue and Thur), Theatre de la Ville (2742277). Nouvel Orchestre Philhermonique conducted by Zoltan Pesko: Rim-sky-Korsakov - The Legend of the Invisible Town of Kitage (Wed), Théétre des Champs Elysées

(7234717). Orchestre de Paris conducted by Daniel Barenboim, Murray Perahia, piano: Schubert, Schumann, Ravel, Bonlez (Wed, Thur), Salle Pleyel

harpsichord: Bach (Thur 12.30 am

March 2-8 and 3 pm), Saile Chopin-Saile Pleyel (561 (630).

New York Philharmonic (Avery Fisher Hall): Gunther Schuller conducting, Sol, Greitzer violin. Stamitz, Schuller, Tchaikovsky (Tue); Ratael Kubelik conducting: All-Smetana programme (Thur); Lincoln Center (874244).

Boston Symphony (Carnegie Hall); Seiji Ozawa conducting, Maurizio Politin plano. Mozart, Schoenberg, Strauss (Mon). (2477459).

Guarneti String Quartet (Alice Tully Hall): Andre-Michel Schub piano. All-Franck programme (Wed, Thur). Lincoln Center (362 1911).

WASHINGTON

lational Symphony (Concert Hail): Yehndi Menuhin conducting, Anton Kuerti piano. Elgar, Chopin, Tchai-kovsky (Tue, Wed mat, Thur). Ken-nedy Center (2543776).

CHICAGO

Chicago Symphony (Orchestra Hall): Leonard Slatkin conducting Radu Lapu piano. Ravel, Carter, Beethoven (Thur). (485*8*122).

PHILIPPINES

Masile: CCP Main Theatre: Philippine Philhermonic Orchestra and Philippine Madrigal Singers conducted by Francisco Feliciano. All-Tippett pro-gramme with the piano concerto conducted by the composer, soloist Carmencita Sipin-Aspiras. (Wed).

Enslaved by Dreams/ICA

Michael Coveney fixed setting mumbling banali-

all year was Monstrous Regi-ment'e Wild West Calamity in ties. Chris Bowler, who has devised and directed the piece, Kilburn, but the same company runs it e close second with thie lumpen, intellectually arid and physically inept piece about Florence Nightingale. It is claar no one involved knows bow to take a pulse, or can be bothered to explain to an audience who Sidney Herbert was, or can—and this is the astounding news—evan work up any sort of animated response to the feminist heroism of the great lady beyond a routine sniggar at her concern

for the military in India. The format is the same as in crotchety, bed-ridden old lady, Calamity: three ectresses in e hossing everyone around to tha

dampens your spirit from the off. The three girls arrive lu a dead march carrying candles. Gemma Jackson's design is a cul-out room with beds and a writing table. In blue, Sally Cranfield represents the young Victorian busting out of repressive corsets to a career in nursing. In grey,

Tamsin Heatley is a prim caricature of the Crimean heroine, slopping out buckets and button-holing members of the audience with her notes on nursing. In cream, Celia Gore-Booth is the

laughably primitive choreog-raphy, tumbling over beds and combing each other's bair, that sort of thing and perform the odd Victorian parlour eong. Fleeting references to the Barrack at Scutari or the catastrophic conditions endured by the soldlers are not allowed to interfere with the overall mood of incompetent miasma. It goes without saying that Monstron Regiment has nothing of note to say about the nursing profes- make a pathway for a stately siou or the fate of contemporary the show as nothing sn much as e rather bizzare form of

Tha trio execute some

Lontano/St. John's, Smith Square

Andrew Clements

The concerts put on by the Society for the Promotion of New Music are inevitably hitand-miss affairs; were the proecedings any more predictably accomplished (or predictably awful) they would rapidly lose their savour. Yet Weduesday perhaps less satisfying than many and what interest there was lay chiefly in the last was lay chiefly in the two clarinet and piano I could find "revivals" of pieces by more little but self-conscious posturor less established composers. Among the three premieres The fibrous core that seemed

a partial exception must be to be lacking in all three new made for Richard Hugbes' works was wall to the fore in Summer Grasses, a haikuinspired efforesceuce for soprano and a Boulezian ensemble of 'spieis and 'phones: harmonically lucld and embed-

Avril Anderson's The Grass Horp, first performed in 1979. Indeed muscularity proved to be its leading virtue; the acidic combination of flute, oboe, clarinet and trumpet (an ensemble once contemplated by Wabern) gives an incisiveness to the many layers of ostinato that make up the piece, though the promise in the opening the promise in the opening strictly speaking, the designs Christiua James a suitably dispages of fierce new textures is are not Jepanese but D'Oyly couraging appearance as never quite delivered.

The Mikado/Old Vic

B. A. Young

Ontario, 18 months ago, and it bas been running on and off ever since. It is one of the prettiest Gilbert and Sullivan productions I have seen, played on a plain stage against a black background. Stagebands come on now and then to place some fresh hit of furniture, principally a aet of low platforms of varying beights that can entrance or display a soloist, Nightingales. Nurses and and sometimes a more func-feminists might, indeed, regard tional item like a bonsai tree grown to adequate size. The costumes, designed by Susan Benson, are the usual mock-Japanese in style, but richer and more graceful than we generally see. Miss Benson, with Douglas McLean also designed

> Noh or Kabuki theatres; indeed, Carte enriched, and the Katisha.

I saw this production at the tumblers and Katisha's lion-dogs Avon Theatre in Stratford,

The company ere for the most pert stronger at singing thau at acting; the songs are tunefully sung, and the words are all clearly sounded, even if some of Gilbert's subtler jokes areu't attempted. John Keane es Marie Baron's Yum-Yum is all one would ask. The patter songs bave been considerably rewritten to include such topical subjects as the return of the

the week John Banks, who does these things, will doubless bave found a rhyme for GCHQ. Tha most genuinely three dimensional comedy playing is from Richard McMillan as Pooh-Bah, which is original and thoughtful. But he has lat lt go to his haad, and even works

eway during ensembles and From time to time, the black disturbs the equilibrium of is relieved by a superimposed Brian Macdonald's choreopattern — a fan, that unfolds graphy, mostly so attractive, during the opening chorus to (Mr Macdonald is also the remind us what country we're director.) Eric Donkin, as in, some trailing garlands of Ko-Ko, is another playar whom flowers, or a blg circle that is I know as an aclor; be is more the sun when Yum-Yum sings of it, and magically turns colour to be the moon for the second looks sweet singing "Tit-willow" from the bonsai tree. Avo Kit-reference to the patterns of the reference to the patterns of the task makes a suilably impresBRACKEN HOUSE, CANNON STREET, LONDON EC4P 4BY Telegrams: Finantimo, London PS4. Telex: 8954871 Telephone: 01-248 8000

Monday March 5 1984

The Airbus example

European industrial collabora-tion. The consortium, in which France, Germany and Britain are the biggest partners, has won a respectable ahare of a market traditionally dominated by the U.S. Yet it is doubtful whether the formula can or wbether the formula can or should be applied to other sec-

The manufacture of large civil aircraft, involving very high initial investment and a nigh initial investment and a long payback, is exceptional even among high technology industries. Moreover the pool-ing of technical and financial resources, reinforced by govern-ment subsidy, bas not solved the European industry's basic prob-lem vis-d-vis the Americans—its low volume of production. Long production runs give the Americans, especially Boeing, economies of scale which are extremely difficult for the Europeans to match unless they can secure a sizeable sbare of the U.S. market. That is why the Airbus investment is so speculative and why the bulk of the funding bas to come from gov-

The British and other European governments evidently want to preserve their civil aircraft industries for non-commercial reasons, but that is not an appropriate policy for industry in general. The objec-tive should be not to substitute the judgment of governments for that of the market, but to create the conditions in which European companies can achieve the economies of scale necessary to compete inter-nationally at a profit.

Opportunities

It is striking, for example, that in telecommunications—particularly public switching equipment, where European industry is relatively strong— the volume of intra-European trade is very low. Companies like CIT-Alcatel in France and Plessey in the UK have to look for exports outside Western. Europe, competing against Japanese and American companies which have the benefit of large and homogenous home markets, The UK and

AIRBUS INDUSTRIE, which much more promising in the last week gave the go-abead for U.S., where the break up of the new 150-seat airliner, is American Telephone and Telephone the new 150-seat airliner, is American Telephone and Tele-sometimes seen as a model of graph has created new opportunities for equipment sup-pliers.

The fragmentation of national markets is aggravated by tha tendency for European governpions," whose commercial free ations of national prestige. Thus Divetti in Italy and Philips in Holland find it easier to forge links with AT & T than, say, with e French nationalised concern which is inevitably subject to government pressure

Luitiative

This combination of factors together with the push into Europe by IBM, AT & T and bas revived fears of technological dependence. One of the responses has been to stimulate inter-company cooperation in research, partially funded by governments. The recently-launched Esprit programme, covering research into advanced computers and other forms of automation, is seen as an important Community initiative in the field. But cooperative research will be of little value unless the products thet result from it have access to a large, open market. The emphasis of industrial

policy in the Community needs to shift from big companies and big projects towards identify ing measures which promote technical advance at all levels of industry. They include har-monisation of technical strative barriers to trade, encouragement for venture capital and increases in the supply of skilled manpower. The aim should be to create not e European counterweight to IBM, but an environment in which innovators of every abape and size can flourish.

A more open, competitive European market in high technology industries would upset powerful interest groups which are used to a privileged rela-tionship with their bame governments; defence procure-ment, an important source of technological advance, is an obvious case in point Chipping France are discussing a partial is less glamorous than investing opening up of each other's in airliners, but the returns are markets, but the prospects look likely to be higher.

Brazil's choice of president

BRAZIL'S presidential elections party is badly split and there are not due until January 1985. is no majority backing for any On paper this still gives President Joao Figueiredo a reason-

he is on the way out and suffering from ill bealth has begun to create the impression of a lame-duck administration. President Figueiredo seems to have lost the atomach for firm govern-ment and this has intensified the pre-electoral politicking in which be too is embroiled.

Given that the presidential elections will determine the path towards a full return to democracy, it is natural that the country should now become absorbed in its own political affairs. The elections ere after all an essential element in the military'a plan gradually to hand over to the pollticians the control which they assumed by their intervention in 1964.

Nevertheless, the interna-tional banking community, to wbom Brazil owes more than \$90bn (£60.8bn), can scarce observe this process with total ease. For if the Figueiredo administration becomes paralysed by the elections, then Brazil's capacity to implement the IMF programme (on which in turn commercial hank lending hinges) is bound to be affected. As it is, the inflation figures for the first two months of the year are far higher than expected; and this could jeopardise tha echievement of the first quarter targets.

Original aim

While Brazil deserves a measure of understanding from its international creditors as It and the military who still sit voiced their concern over in judgment behind them—can elso help. At this stage the single most important issue to the same handled the process of clarify is the electoral process

one candidate.
The divisions are more about

able run to implement the economic policies agreed with the International Monetary Fund last December.

However, the knowledge that he is on the way out and suffera fresher image. At present the front-runners are Sr Paolo Maluf and Sr Mario Andreazza, both of whom fit into the former mould. Yet a strong minority, mould. Yet a strong minority, including several state governors, bas swung behind the candidacy of the current vice-president, Sr Aureliano Chaves.

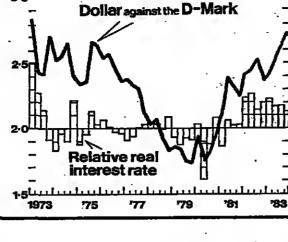
Vociferous

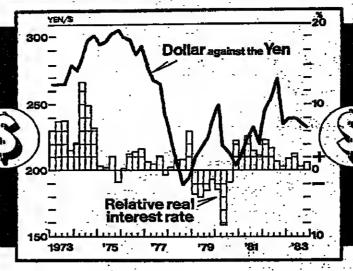
Sr Chaves, realising that his presidential bopes are limited under the existing rules, has come out in favour of direct elections that would by-pass the electoral college. His espousal of direct elections has added a weighty voice to the opposition's Day. Chapman's job will be increasingly vociferous campaign against the electoral colducts and sales strategy to

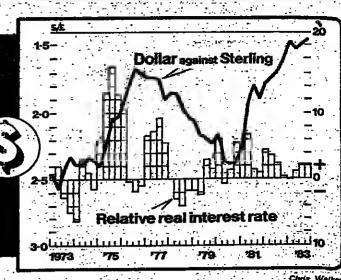
Thare is nothing to stop President Figueiredo accepting legislation which changes the electoral procedure. He could get such legislation through Congress but there might be a tough battle in the Senate.

More importantly, be risks upsetting his own generals who endorsed the "indirect election" procedure as part of the gradualist return to democracy. The military's main fear is that direct elections could encourage anarchic populism of the very kind that provoked their inter-vention 20 years ago. They also look askance on the prospect of a left-wing candidate succeeding—a possibility which cannot be excluded given the preten-sions of the governor of Rio de tries to sort out its political Janeiro, Sr Leonel Brizola, future, the country's politicians Last week the military publicly

So far the Brazilian anthorities have handled the process of "arbertura," the opening up of democracy, skilfully and well, despite the strains erising from The original aim was to let the new president be chosen from the 668-member electoral college in which the ruling Partido Democratico Social, PDS, has a built-in majority. Electing the new president would have been a relatively smooth process provided that the PDS could agree on its candidate. However, the ruling despite the strains erising from the country's economic crisis. It may be that to speed up the process hy opting for direct more problems than it solves. But the President needs to act the present uncertainty, which risks polarising the political debate to a dangerous degree.







When the dollar loses its shine

strutting across beadlines for three Internetional Public Enemy Number One, the mighty U.S. dollar appears to have been ambushed at last by the exchange foreign

The dollar's assault on the DM 2.85 level in January was simply too audacious and the subsequent retreat of nearly 10 per cent in the dollar-D Mark exchange rate has exposed the U.S. currency's vulnerability. If the dollar falls convincingly through its next resistance point at around DM 2.58, the turn in market sentiment could be decisive and long lasting. Yet there are few signs of

Yet there are rew signs of rejoicing about the dollar's fall in the central banks of Europe and Japan, and even less inbilation in the world's stock markets. From Tokyo to London, share prices have fallen "in sympathy" with the setbacks of the dollar and Wall Street. This may seem odd since the

strength of the dollar has been blamed repeatedly in recent years for decisions to tighten monetary regimes in West Ger-many, Japan and France. And the lure of America's ever-rising currency, backed up by its high interest rates, has been denounced repeatedly at international economic summits for starving the world's other economies of funds.

But now that the surge in the

dollar may be about to reverse itself, it is much less clear cut than it appeared at Versailles or Williamsburg whether a weaker dollar will aid world economic recovery or obstruct The current bout of worldwide

nervousness about what life may be like with a weaker dollar is more about the style of the dollar's decline than about the fact that It is falling. It is still generally believed that a weaker dollar will reduce inflation ratea in most countries because it will bring down oil and commodity prices. To the extent that this is

true—and experience of the past few years suggests that the doller prices of most commodities and even oil are fixed only in the short term, before they dollar's exchange rate - the of the dollar could increase growth rates in some room for real activity within any particular monetary targets.

Shipbuilders'

new salesman

Nobody looks more thoroughly at bome in the burly-burly of

But nowbere in the world would a weaker dollar be an unmixed blessing.

For Japan and the Pacific Basin it could mean a big drop in exports or, more likely, in exporters' profit margins. For Europe, which does much less direct trade with the U.S. than Japan, a lower dollar would still mean tougher competition

from U.S. companies in third country markets. For the atrug-gling debtors of the Third World, the dollar-denominated debt hurden would be reduced, but so would the rewards from burgeoning exports to the U.S. market, while imports, which come predominantly from Europe and Japan would become relatively more expensive.

Ironically, France, which has been the strong dollar's most vociferous critic, could find its leeway to cut interest rates restricted even further now that the dollar is falling. For the government must prevent the franc falling against the newly-popular D-Mark within the European Monetary System. In Britain, by contrast, the dollar's decline could facilitate lower inrates, aince the government may welcome the pound weakening against the European currencles, while maintainin parity against the dollar. while maintaining its

However, the worries about recent events in the foreign exchange markets do not con-cern such quibbles. The real fear is that instead of a gradual "soft landing," the dollar could all too easily suffer a ront, with possibly disastrous conse-quences for interest rates, inflation and growth in the U.S., which could spill over the the rest of the world as happened after the dollar's 21 per cent fall against the D-Mark in 1978-79.

D-Mark in 1978-79.

If assessing these fears about a collapse are justified it is not enough merely to observe that the U.S. currency is vastly overvalued—33 per cent higher, in fact, than its average value between 1973 and 1979 against the currencies of U.S. trading partners, adjusted for inflation. If this is indeed the beginning of the long-awaited hear market in dollars, the key to future developments must lie in the new trend's causes. A search ting that there is, in a sense, no such thing as an over-valued currency in a world of floating exchange rates and free capital movements

The real fear is that the dollar could suffer a rout, with possibly disastrous consequences for interest rates, inflation and growth in the U.S., which could spill over into the rest of the world, writes Anatole Kaletsky

vestors, speculators and central bankers (if they choose to intervene in the currency markets) to buy the surplus dollars offered the world that day as e result of the U.S. current account deficit.

The first canard to bury is that the world could refuse to finance an excessive U.S. current account deficit, for however many dollars there are on offer, somebody will buy them. If there are not enough buyers at DM 2.80, then the dollar will drop to DM 2.59 or whatever level is required to square that day's dollar demand and supply.

This daily exchange rate obviously depends on two fac-tors—the return evallable on dollar securities and the size of the current account deficit and would reinforce confidence which has to be financed. There is another equally critical influence—the halance of expectations among investors about which way the dollar will move exchange markets is that this results of the past few weeks for the foreign exchange markets is that this next. This third, psychological, factor is affected by the level of interest rates—particularly its real interest rates, adjusted for inflation (as shown in the charts)—and by the prospects for the current account.

It can also develop a life of its own, particularly if perceptions about a country's inflation or its political stability deteriorate. As we shall see, this third factor of "con-fidence" is not, in the present circumstances, as vague

whatever level will persuade in- in U.S. interest rates. The mo optimistic projection was that interest rates would fall as a result of actions to cut the federal budget deficit.
Failing this, it was hoped, most notably in the Federal Re-

serve Board, that the U.S. economic recovery-would gradually slow down from its torrid annual growth rate of 6 per cent during 1983 to somewhere nearer 3 or 4 per cent. This slackening would bring

down interest rates, while raising the pressure on politicians to address the budget deficit issue after the November elections. The dollar would fall in response but only gradually, since the slower growth and since the slower growth and prospect of budget action would reduce the magnitude of the current account deficits which had to be financed in the future

its bead — the dollar has fallen as U.S. interest rates have risen and fears about the budget deficit have grown. Thus the markets are being forced to consider the second possible explanation for a fall in the dollar—the level of the current account which will need to be financed in the years ahead is being pushed up by the strength of economic re-

popular scenario for a "soft landing" has been turned on

send over a senior man from New York to give the club its

official blessing.

Old times

foreign ones, sending the cur-rent account still further into deficit, unless the dollar falls. Until recently the possibility that the dollar could fall as a result of excessive economic growth did not cut much ice in the foreign exchanges because of a vital caveat. The conventional wisdom held that if an expansion did threaten to get ont of hand, the Fed would promptly slap it down with higher interest rates. This Fed action in turn was

This Fed action in turn was expected to drive up tha dollar which is why throughout last year the foreign exchanges perversely bid the dollar up on news of high inflation and economic growth figures, while they sold the dollar when they saw inflation and growth declining.

The scary scenario which is now beginning to stir the finan-cial markets is that this caveat cial markets is that this caveat may turn out to be wrong—the Fed may be unwilling or unable to brake the growth of the U.S. economy. And if the Fed does fail to act, the excessive growth explanation for the dollar's fail may not merely be religiously and the product of the control of the c validated—it may turn into the third explanation—a self-perpetuating loss of confidence. For any fall in the dollar will.

give an upward twist to infla-tion—a 10 per cent fall in the trade-weighted dollar index raises U.S. consumer prices by about 1.2 per cent over two years according to the OECD. It will also tend to accelerate the economic growth rate by stimulating the export sectors which have so far been in the doldrums. The growing concern about infiztion, meanwhile, will exacerbate further the market's expectation that the dollar will continue to fall. will exacerbate in ther the as still most likely that a choice market's expectation that the as stark as this will not actually dollar will continue to fall.

As this pressure mounts, the change markets hage second thoughts about the dollar's weak a moment of truth. If the Fed thoughts about the dollar's weak ness somewhere on the way fails to tighten the monetary screws sufficiently, it will lose But if a choice does have to be made a speech last week by wark of the U.S. economy Mr. Martin Feldstein, the President's outspoken chief economic in the dollar could turn into a collapse. If it tightens too closest ally in the Washington much, it may undermine the incipient recovery of business investment which is the most on the sade of benign neglect hopeful development to have of the exchange rate. Tighten occurred so far in the U.S. "undesirable" to prevent a fall

electoral issue and hand the Presidency to a Democratic candidate who will almost certainly be even more unsettling to financial markets than Ronald Reagan, at least in the early phase of the new Administration.

Thus, the Fed faces more constraints than at any time in

the past three years but the nervous foreign exchange markets could do more than limit its room for manouevre—they could make it non-existent. For even if the economy as not sectually growing so rapidly as to set the Fed's clarm bells ringing about inflation, the markets may believe that it isbehave in such a way as to fulfil their forebodings. Once a downward trend in

Once a downward trend in the dollar becomes firmly established in market psychology, it will require substantially higher interest rates as keep the currency at any given level. For example, it may need a Federal Funds rate of 15 per cent to keep the dollar at DM 2.50 if the market corrects. the market expects the dollar to fall, when an interest rate of 9.5 per cent was sufficient to sustain this exchange rate when the dollar was rising. Thus, once bearish expectations catch on in the foreign exchanges, the Fed could be forced to choose between tightening monetary policy in an economy which is slo anyway or allowing the exchange rate and inflationary

Obviously both these alternatives would be grim ones for the U.S. economy. But the first would be worse for the world as a whole if it involved a major increase in U.S. interest rates. It is still most likely that a choice

for these must start by admitting that there is, in a sense, no such thing as an over-valued currency in a world of floating exchange rates and free capital movements.

Furthermore, the persistence economy; it will squeeze the "undesirable" to prevent a fall to high real growth rates is starting to push the economy up against its capacity limits, creating the conditions for a new upsurge of inflation—and this important of all, it will risk markets on the way down, as it making monetary policy a key was on the way up.

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FOREIG

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Men and Matters

the shipbuilding industry than Ken Chapman, the tough, fasttalking 44-year-old, one-time apprentice, who runs Swan After a year as head of the

Tyneside yard, Chapman will soon be taking on one of the industry's most challenging jobs —running the new product development and marketing de-partment to be set up by British Shipbuilders, State-owned BS, staggering

under huge losses and desperate for more business, is being streamlined by its recently appointed chairman, Graham ducts and sales strategy to weather the barsh conditions of the industry.

"It's extremely tough, we've got to face that," Chapman reflects on the task ahead. Like other European yards, BS will concentrate on trying to meet shipowners' needs instead of simply offering them its own

"Rather than saying: 'Here's what we've got, pity no-one



and don't give me that sob story about having to get rid of short term gilts." and act more as a transporta-tion consultant, asking shipowners: 'What do you want to move, how and where?' Managing Swan Hunter, one

of the largest and most complex of the BS yards, is something be has "enjoyed thoroughly — there's a huge potential bere." Chapman will still be deputy chairman of the composite

(naval and merchant ships) yard where he bas striven to boost productivity and over-come delays on building the new Atlantic Conveyor for Cunard. The BS division within which

be will wark will be beaded by Peter Mine, a diffident 48-yearold, who 10 months ago was given the awesome job of trying to sort out the troubles of Scott Lithgow, on the Clyde, and is now taking on an expanded role over all the merchant and com-

Postmark

The marketing skills of Irish supermarket chief, Fergal Quinn, are being put to good use in his other role as chairman of An Post, the newly-established Irisb postal com-

Rivals in the grocery trado concede that Quinn's "Super-Quinn" chain is among the best anywhere; and the old super-market adage that volume is what counts is being vigorously

Quinn's first wheeze was a penny post on January 1, when An Post took over from the old Post Office. Now he has called on the Irish patron saint to belp encourage people to use the service.

St Patrick's Day is March 17
—and An Post is offering greetings cards for an all-in price of design the club tie; and Citi25 Irish pence, postage paid. Not a bad bargain when the for an inaugural dinner and

wants to buy it,' we've got to price of a first class stamp is study the needs of the market | 26 Irish peoce. The trick seems to be work-ing. There bave been long queues at many post offices and some have run out of cards.

Citibank alumni Just as British industry seems

to be full of managers who once worked for Ford, so the City of Loodon seems to be liberally sprinkled with bankers who spent their formative years with the aggressive New York

Among those who spring readily to mind are Michael yon Clemm, chairman of Credit Suisse First Boston; Bob Logan, chief executive of Grindlays; John Hyde, chief executive of they give into the law and social habits of the times. It is with the delight of an old City reporter that he lists, for example, the account of the "tryal and condemnation of the Charterhouse Group; and Peter Alexander, European bead of Chemical Bank The Duke of Argyll is an

cx-Citihanker, so is John Mont-gomery, Clerk of the Salters' Company; and Richard Wheeler-Bennett, chairman of Thomas Borthwick, the meat group. With at least another 200 or

so working in or around the City, little wonder that moves are afoot to form an old boys' association — the Citibank alumni. The venture

organised by Stanley Howell, lately general manager of Chemical Bank, and now geoeral manager of Centerre Bank. Howell spent 18 years with Citibank both in Britain and New York and New York.

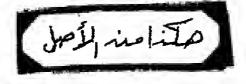
"The idea," he tells me, "is to form a club that would hold two or three social events a year." There has been an enthusiastic response from those old boys be has contacted so far and he is anyons to hear so far, and he is anxious to bear

Sound opinion Glasgow graffito: "Listening to the bagpipes is e fate worse than

Observer

Brokers, it appears, have not always enjoyed the reputable position in the City establish-ment that they hold today. Sir William Rees-Mogg, former Times editor—and one-time Observer for this column-has come across several nefarious examples in what has clearly been the enjoyable task of cataloguing a series of rare 17-century crimloal news pam-phlets for his antiquarian bookphlets for his antiquarian book-shop, Pickering & Chatto. The sheets were the pre-cursors of the sort of news reporting for which the News of the World (not The Times) was later to become famous. They sell for £150-£450 and, says Rees-Mogg, are of scholarly interest not only as early journalism but for the insights they give into the law and "tryal and condemnation of Frost the Broker" in 1675. Not content with charging interest at a weekly rate of three shiflings in the pound, Frost tried to make more profit by clipping and filing "His Majestles coyn" and ended on the gallows. "Now Brokers all a warned be, Here is your Brother condemned you see," a balladeer wrote on his passing. Kipling would have waxed lyrical about Air-India. Especially our First Class. Wide, deeply comfortable seats in which wrote on his passing. Rees-Mogg'a old editorial hand is also discernible in the commentary on the account of the trial of rioting apprentices in 1668. Sir John Kelyng, Lord Chief Instice college at the he could stretch out or curlup. An equally wide choice of the very finest Eastern and em cussa. Beautiful his Western cuisine. Chief Justice, opined at the time that "If a Company of People will go about any Pubhostesses at his every beck and call. lick Reformation, this is High The very latest 747s. "Long may it remain so," adds Rees-Mogg, echolog many a Times leader. soaring flights of fancy. Westbound every lunchtime to New York, eastbound every morning, non-stop to India. We could even have asked him to write this But chances are he'd have been lost for words.

Contact your travel agent or call Air-India on 01-491.7979.



FOREIGN AFFAIRS: EUROPEAN DEFENCE

The Kissinger recipe

By Ian Davidson

Henry Rissinger set out 2 de-tailed plan for the revalancing of the Atlantic Alliance, with the European allies to step trine. The politico-military prob-ing the Europeans allies to step trine. The politico-military prob-ing the Europeans allies to step trine. The politico-military prob-ing the Europeans allies to step trine. The politico-military prob-ing the European allies to step trine. The politico-military prob-ing the European allies to step trine. The politico-military prob-ing the European allies to step trine. The politico-military prob-ing the European allies to step trine. The politico-military prob-ing the European allies to step trine. The politico-military prob-ing the European allies to step trine. The politico-military prob-much richer than the Soviet the entrenched strategy of for-used the entrenched strategy of for-as the U.S., it manifestly the special strategy of the entrenched strategy of the strategy of the strategy of the strategy of the entrenched strategy of the entrenched strategy of the strategy of the entrenched strategy of the strategy of the entrenched strategy of the decades—and is indeed decoming a generally fashionable topic of study by analysts and of public prosouncement by the more imaginative European politicians. For the Klasinger essay raised a mini-storm of disapproval from Brussels to Beam and back again.

March 5 1984

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This is elightly pozding Noone-can scripusly deny that the
Allance faces an accumulation
of structural problems, military. ancial and political, and only the most complacent would argue that these problems can be dealt with by shuffling them under the carper. One might imagine that a contribution to the debate by a statement with the debate by a statesman with the debate by a statesman with as much experience of the international scene as Henry Rissinger would call for deliberate consideration. But no dismissals has been instant and sweeping, from the German foreign ministry, and from the civilian and military leadership of Nature.

of Name.

Admittedly, many of the specifics of the Kissinger plan specifics of the Klasinger planare debatable; some may be inharently misguided; others, if desirable, may be impracticable at least in the current state of Europe's development. But there can be no doubt that he means well; his recipes may or may not be the right ones, but at least his objective is to strengthen the Atlantic Alliance, and to every a situation in which and to evert a situation in which frans-Atlantic stresses could lead the Americans to career off

in the direction of neo-isola-tionism or global unflateralism I suspect that the immediacy of the dismissal of the Rissinger ideas has something to do with the fact that he is an American. When President Reagns proposed the development of space based systems in ward off the danger of melear attack, he was widely denounced both in Europe, and in America for was widely denomiced, both in Europe, and in America, for indulging in a dangerous star wars fantage. But when President Mitterrand, a few weeks ago, floated the idea of a European manned station in space to thwart any potential threat. Suppose politicians and strategists remained

essay in Time Magazine; Dr different. Nanry Rissinger set out a de When American spokesmen generality, the idea is anything hi-tech conventional weapons, but new it gies back several as a substitute for tectical decades—and is indeed become muclear weapons, the Euronuclear weapons, the Euro-peans complain that they are being got at. Yet among the French, of all people, it is now becoming acceptable to raise the long-taboo notion that

there needs to be a change in the relationship between West Germany and nuclear weapons. It is Jacques Chirac, no less, tha leader of the Gaullist party, who has said that this problem needs to be addressed; how he does not claim to know, but somehow or other, he believes, it must be addressed. And quite recently a French socialist depute, writing in Le Monde, argued that, as part of a more towards a more united. a move towards a more united European defence posture, the Germans abould have dual-key control of some of the French nuclear weapons.

As between the two orders of ideas, stronger conventional of ideas, stronger conventional defence and a re-opening of the German nuclear question, there should be no doubt which ought to be the more explosive in political terms, and which is more pressing in security terms. Yet it is the Americans who are perceived, because of the Allience are the because of their dominant posi-tion in the Alliance, as the trouble-makers; and also, of course, because America today is associated with Reaganism, with all that that entails in umpredictability and global activism.

ideas do deserve serious examination. And they deserve it all the more if it is true, as some suggest, that the good doctor still entertains hopes of activities to high collections. returning to high office in Washington perhaps in his old post of Secretary of State in a second Reagan administra-

. Kissinger identifies two broad categories of problems in the alliance: the first military and doctrinal; the second political and economic. The military problem is that Nato's in-

LAST WEEK, in an extended absolutely calm, not to say in much of its credibility, and deterrence against a deliberate Soviet attack; if there are holes in the credibility of the therefore seriously undermines public support for Nato docnuclear doctrine, yet still a Soviet aggression would face horrisc risks. Nevertheless, it is clear, from the controversy in many European countries that many people do not feel confidence in the security yet at the same time it whines posture. at the consequences of its dependence on American Rissinger's answer to the

the nuclear deterrence provided

Many of the specifics

legacy. Twenty years ago, de Gaulle resisted might and main the American attempts to shift Nato strategy away from the massive nuclear retaliation, in

the event of a conventional Soviet attack on Europe, to

wards what came to be called "ferible response": the U.S. believed this would restore credibility to the nuclear deter-

rent in Europe; de Gaulle believed it would further under-

neiteved it would turther under-mine it.
For five years his resistance was successful. When it finally falled, he withdrew France from the integrated military structure of Nato, and based French defence policy on the principle of total indepen-dence, both muclear and con-

dence, both nuclear and con-

ventional. Deprived of the French hinterland, geographic, military, logistical and politi-cal, the defence of Germany

became even more dependent on the American alliance.

The trouble is that this de-pendency no longer provides reassurance. It may well be

of the Kissinger

plan are debatable

problem is that benceforth the Europeans must assume greater responsibility for their own defence. It is idla for the nuclear weapons and at the wilfulness of American leadership.
There are mitigating reasons
for this undignified Euro-Europeans to retort that they already provide 90 per cent of the ground forces and 80 per cent of the tanks and aircraft. pean posture, first among which is the special status of Germany. At their own choice, and at the The plain fact is that they spend much less on defence than the Americans, and it is they who are unhappy about insistence of their neighbours, allies and enemies, the Germans have renounced unclear weapons; in the nuclear age this makes them ultimately dependent for their security on the security situation. In any case, Kissinger is not just mouthing the old incantation about defeoce hudgets; he is arguing that it is time the by the American super-power.
Germany's dependence on
America has been made even
more difficult by the Gaullist Europeans decided what kind of defence they would be happy with: as a corollary, the post of Supreme Allied Commander in Europe should be transferred from an American to a European general.

His preferred outcome would be that the Europeans would de-cide they wanted a stronger conventional defence, so as to reduce dependence on nuclear weapons, and would agree to larged provide it, in conjunction with an American contribution broadly on the present scale. an American contribution broadly on the present scale. But if the Europeans decided that they were unable to tackle the nuclair dilemma by providing a stronger conventional defence, then in that case the U.S. tional defence effort approshould act in accordance with a doctrine of nuclear dependence by withdrawing up to half credibility of Nato's nuclear doctrine, or fear the probable contrine, or fear the probable contrine.

European responsibility for European security should also off late last year, are both as might encourage the Russians mainly about European interests; in both of them, therefore, the leading role should be transferred to the Europeans.

The last year, are both as might encourage the Russians to try their luck at a purely conventional attack.

Nevertheless, the underlying thrust of the Russianger themselves to the rest of the Russians.

problem is that Nato's inadequate conventional forces
make it precariously dependent
on nuclear weapons; yet nuclear
party drains this posture of
provides a secure and stable
the specifics of the Kissinger
plan. The MBFR negotiations, pean governments should not
provide the kind of defence
true, as most serious analysts handled on the western side on
a multilateral Nato basis; and their electorates would



it is hard to envisage the Euro- be comfortable. If they don't peans moving from an influen-tial to a determining role in deployment, of nuclear weapons which belong to the U.S., and where any treaty must be ratified in the U.S. Senate. Even in MBFR, to give the Europeans an overtly decisive voice would

making power over the deployment of American troops in Europe. The Europeans already play an influential role in both negotiations; It is bard to see bow this role could be much enlarged without raising profound constitutional issues in Wash-

trine, or fear the probable con-sequences for themselves if it were ever called into play, it extend to arms control, according to Rissinger. The MBFR control whole of their defence comventional force negotiations, mitment to Europe; it must be which reconvens in Vienna next much less rational deliberately week, and the Euro-missile to engineer a critical weakening negotiations which were broken of the conventional halance such

It is easy to pick at many of is almost incontrovertible. There the specifics of the Kissinger is no objective reason why Euro-

like the present situation whether it comes from depen dence on nuclear weapons or from dependence on Reaganism, then they should do something about it. If new strategie thinking and the opportunities provided by hi-tech point to-wards a shift from unclear to conventional weapons, by wards a shift from nnclear to conventional weapons, by definition that should imply a corresponding shift from dependence on the U.S. to a greater degree of self-reliance. It will be objected that a greater degree of European self-reliance in this content of the content of th

reliance is inhibited by national sovereignties, national traditions and national politics. In the economic sphere, these ara the excuses trundled out to justify the petty protectionisms of national rivalry which have stalled the development of the European Community, in spite of the pressing imperatives of the economic crisis which have called for different attitudes ever since the first oil shock a decade ago. But if Europe'a security is at stake, the weasel

words will no longer do, The French seemed to have recognised the nature of the problem; the Germans are wrestling with uncomfortable reality; the British pretend there is no problem, largely because Mrs Thatcher does not really accept that Britain is part of Europe. Henry Rissinger's recipes may be all wrong; but it is a fair bet that, when Euro-pean Community leaders meet in Paris in June, President Mitterrand will press the debate about European responsibility for European security one step

Lombard

A question of intelligence

By Michael Dixon

together and produce more babies Singapore's living standards will fall, says Prime Minithe tendency of the highly educated to breed less than their academic inferiors is a mechanism for reducing the country's average level of intelligence, so causing economic and social decline. and social decline.

while it is no longer stated publicly by our political leaders, the basis of the same belief persists in western societies. It is true that those claiming, like Mr Lee, that genetic inheritance is the main source of intelligence are opposed by groups such as Marxists who say the source is the social conditions in which a child is brought up. But both camps mostly share But both camps mostly share two more fundamental assump-

One is that there exists a thing called "general intelligence" possessed by people much as they have the power of sight or hearing. The second is that how much "g" intelligence we have is reflected by our performancies and accordance and the second in th formance in academic educa-

Among professional psychologists, however, these assump-tions are a matter of snarp controversy. Numerous psychologists do believe in the single "g" property on the basis of their statistical interpretations of countless intelligence tests.
But probably an equal number argue, on the evidence of different interpretations of the same tests, that there is not just one but several different kinds of intelligence.

Since neither side's statistical approach is demonstrably more scientific than that of the other, tha controversy seems unlikely ever to be resolved so long as its raw material is the result of psychological tests, usually of the pencil-and-paper type. But a four-year study at Harvard University has led to an attempt to hreak out of sterile arguments. It is described in a book just published in Britain written by Dr Howard Gardner.

He is a psychologist, trained in one of the strictest versions of the single-intelligence con-vention, who went on to divide

UNLESS university - trained victims of hrain damage on the women and graduate men get one hand, and normal and gifted one hand, and normal and gifted children on the other. "I soon saw that what I'd heen trained to believe conflicted with what my research was showing," he

He has studied the evidence not of psychological testing, but of actual examples of intelli-gent activity in various cul-tural settings. The aim was a coherent explanation of the coherent explanation of the whole gamut of human skills. To fit his definition of intelligence an ability had to satisfy several bard criteria. For example, it had to be one which is wiped out by damage to some identified part of the brain.

He has concluded that there are seven different intelligences. Three are of a aort whose development is encouraged by the academic curriculum in Britain. They are: skill with words; skill in logico-mathematical reasoning; and what he terms intrapersonal intelligence: the ability to reflect mentally on one's own make-up and area to accordingly. A emotions and act accordingly. A fourth, musical intelligence, is also fostered in many schools.

But the rest are only margin-ally developed by conventional academic studies, and sometimes not at all.

Spatial intelligenceto visualise how the parts of complex things fit together and interact—is crucial in engineering design, for instance. A sixth, bodily intelligence, under-lies skill at communicating in mime, gymnastics and so on.
Lastly "interpersonal intelligence" enables us to understand other people's situations and act appropriately.

While all seven are probably white all seven are probably inherited as potentialities, Dr Gardner says, each is likely to atrophy unless its use and development is encouraged by society. Hence the British and other peoples who concentrate their education on at most four, are liable to become more and are liable to become more and more computer-like and self-ceotred while losing their prac-tical creativity and ability to get on with one another.

ought to think again. vention, who went on to divide Frames of Mind. William his research activity between Heinemann; £18.

A hidden tax on water

From the Chairman, Water and Effuent Panel, Confedera Sir,—In your article on the Thames Water Authority (Feb-ruary 22), in which you dis-cussed the cuts planned in the workforce, you quoted certain figures for the authority's costs

and prices, but you falled to bring out the key issue revealed by these figures.

Thames Water, Authority plans to contain its operating costs in 1984-85 to £28/m, an increase of film or less than 2 per cent over the current

year the charges, however, will increase to a much greater mich greater mich greater mich charges will increase but per cent to ? per cent and household water bills by about 25 per cent

Water and sewage are most I detect his dislike of Elgur'a takin needs of the community, music is not so acute as Gill's. Figurapletely wrong for them. Having been closely involved

Letters to the Editor

to be subject to any form of in arranging the concert in the taxation. The Government and Royal Festival Hall to commendate steps to order their of Eigur's death, it is particularly galling to read a criticism of water services does not of the concert which spends occur.

A. R. Guy. A. R. Guy. Courtaulds,

PO Box 16. 345, Foleskill Road.

Lovers of

From the Secretary,

From the rease in operating costs arises a mistake, but twice does call the constraints on external for comment. Recently your matching limits and return on distinguished critic Domnies which are placed by the Gill expressed his dislike of precument on the water. Eigar's music in clear terms before proceeding to give a highly complex and favourable review of the perfect his hidden form of taxs. February 24, Max Loppert purposed water. formance. In your edition of February 24, Max Loppert pur-sued a similar theme although

about the "anniversary"
machine. To suggest that we
are a backward-looking culture
because lovers of Elgar's music
wish to celebrate his life and work is preposterous. What future is there for our culture when we listen to Bach or Mozart? No, Mr Loppert has got it wrong. He may on the other hand be very lucky. He suggests that the "Grania and Diarmid" music is not "really a rarity" and "the second Wand certa." Well I have never heard them live before and would therefore be delighted to know what I have been missing! operating cost of test services that is Mr Loppert is cost.

not in sympathy with what was T. F. Cox.

being attempted. Lovers of a Gaffney, Cline and Associates,
perticular artist can be exit.

Bentley Hall,

climate is no mean feat; which either suggests that the public is irretrievably atavistic or may perhaps, occasionally, enjoy listening to the work of a great by honouring the analyersary of his death. A. H. A. Neill, 11, Limburg Road, SWII.

concert hall in this economi

North Sea oil

and gas costs

From Mr T. Cox
Sir,—Mr G. A. Mackay (February 28) questioned the implication of your February 20 report on North Sea oil and gas costs. To put the record straight our Press release said: "The indices show that offshore development outher any being conlopment costs are being con-tained i.e. the development cost per barrel of oil is not increasing at the rate level observed
from 1971 onwards." The
figures quoted by Mr Mackay
support this conclusion in that
the figures he quotes show of Youth Suite" "is the regular limited increases over the four stuff of South Bank Elgar conthe costs we refer to are the capital costs of development and do not include any element of operating cost or debt service

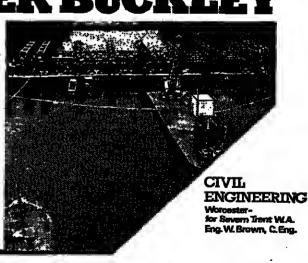
rised for an over-indulgence in Blacknest, their love, but to fill a London Alton, Hants.

We'll put you in the picture





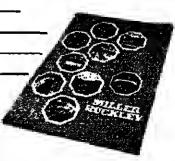




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Stranger & Standard

Stranger be taxed unless he is designated be taxed unless he is designated Lords was totally bound by its in clear terms by a taxing Act own previous decisions, an Act of Parliament being considered of his liability is clearly to be required to reverse the defined, and (2) "No man in this countries to make the contribution of the process of legal developthis country is under the smallest obligation, moral or mallest obligation, moral or other, so to arrange his legal only to have replaced to carried the relations to his business or his property at the man of the existence of the "step by Revenue to put the largest possible" should be the commend and her have been

Accordingly, Revenue and texpayer have always worked on the basis that if a loophole to the House of Lords in order exists, it may be exploited until to have the "new approach" Parliament can be persuaded to extended to its advantage close it. Parliament in this Since the average taxpayer country has never seen fit to take either the enthusiasm or the money to have his name legislate (as has, for example, the South African Parliament) inscribed in the appeal cases, except in certain cases such as those concerning transactions merely because he has taken artificial and non-commercial steps to minimise his tax liabilities. In the line of cases in tax cases to particular, one wonders at what Channel Islands. Revenue to assess a citizen into unconditional surrender.

starting with W. T. Ramsay v depart from principles of some point a prosecuting authority IRC and ending with the thirty years standing by swing will seek to found a criminal Dawson case, the House of ing in favour of the taxpayer charge on the basis of a trans-

This process of legal developremuse to put the largest step approach has been replaced by the greater certainty that the Revenue will seek to exploit every opportunity to take cases to the House of Lords in order.

depart from principles of some thirty years standing by swinging in favour of the taxpayer (as in Vestey) or in favour of the Revenue (as in Ramsay), taxpayers are likely — with some justification — to assume that at some stage the Housa of Larde will be it did in the Lords will, as it did in Vestey case, realise that it has been led to the edge of a precipice and beat a hasty retreat on to firmer terrain. The latest decision is therefore going to serve to increase the confusion which has existed in the administration of taxation since Ramsay and, in all probability, to increase substantially the number of respectable citizens

who will resort to criminal

evasion of tax.

The further inevitable consequence of the House's decision in Dawson is that the case will be called in aid by analogy in other cases, fiscal and nonfiscal. Obvious examples, to name but two, concern the allotment of securities by way of renounceable letter (the sole function whereof is stamp duty avoidance) and the creation of only make economic sense hy virtua of the granting of capital some legal restriction should firmer ground.

will seek to found a criminal charge on the basis of a trans-action containing no business navigate the letter of the law by what would, hat for Dawson, be considered to be legal Does not the "new approach"

infringe tha provisions of the European Convention for the Protection of Human Rights and Fundamental Freedoms? That provides that "every natural or legal person is entitled to the peaceful enjoyment of his possessions. No one shall be deprived of his possessions except in the public interest and subject to the conditions provided for by law and by the general principles of international law. The preceding provisions shall not, how-ever, in any way impair the right of a state to enforce such laws as it deems necessary to secure the payment of taxes...." Since the "new approach" has obvious retro-

active effect applying as it does, to transactions such as those in numerous types of leases which the Dawson case which took place in 1971, it must be regarded as unfortunate in the allowances, Businessmen taking extreme and it is to be hoped steps which have no commercial that the House sees the edge in securities to permit the forcing most contentious cases reality save to circumnavigate of the precipice and retreats to Michael Stannard

FINANCIAL TIMES

Monday March 5 1984



Terry Byland on Wall Street

Drugs and the dollar headache

THE FIRST two months of 1984 will not ha lightly forgotten on Wall Street, even if the stock market was beginning to show signs of coming np for air by the end of February.

All the factors seem to have been bear ones for the past eight weeks. But what is bad for some sectors can be good for others, and it may be time to start looking for the silver linings, especially if the whole market is beginning to look a shade

The wave of uncertainty over the outlook for the dollar, for example, bas already started to benefit some of those stocks in companies which have been struggling for so long to sell their products in overseas mar-

The major pharmaceutical ing their domestic opportunities was offset by their vulnerability to the effects of a strong U.S. dollar, have strongly outperformed the rest of the industrial stock market since the turn of the year.

The pharmaceutical majors take between a third and a half of their sales from outside the U.S. Merck, the sector's favourite son and its representative in the Dow Jones industrial average, is making a bold play in the hugely attractive Japanese market through its most recent acquisition. Banvin.

Like many of the pharmaceutical stocks, Merck peaked ahead of the stock market last year, chiefly because the continued strength of the dollar had begun to depress earn-But Merck'e stock price has riseo

6.67 per cent since the beginning of the year, compared with a fall of

Stock	Price \$	Change from Jan 1 (%)	p/e
Abbott	40%	-11	14
Litty	84%	+12.2	11
Merck	96	+ 6.7	16
Pfizer	381/4	+ 8.6	14
Upjohn	57%	- 34	11

6.92 per cent in the Dow industrials or of 4.42 per cent in the more broadly based Standard and Poor's 500 stock average on which the Wall Street analysts prefer to base their

The same trend has been followed by the other pharmaceutical leaders, with Eli Lilly up 12.2 per cent since January 1, Pfizer up 6.6 per cent, and Bristol-Myers, which is almost never out of favour oo Wall Street, some 2.4 per cent

The companies quoted are among the more prominent in the list of those most closely affected by the outlook for the dollar. Bristol-Myers takes about a third of its sales and about the same proportion of its profits from outside the U.S. Pfizer takes the highest proportion of the sector, with about half its profits and nearly 60 per cent of its sales

Not that the improvement in the prospects for dollar earnings has been sufficient reason to brush aside other considerations. Johnson & Johnson, which soured Wall Street's affections with its widely published problems over Tylenol and then with Zomax, has re-mained even weaker than the rest of the industrial stock market since Christmas, with the stock down 15 per cent this year.

SmithKline Beckman, which bas seen a downgrading of profit fore-casts by the Wall Street analysts beuse of the expectation that sales of its Tagamet anti-ulcer drug will suffer increasingly from the compe-tition from Glaxo's Zantac drug, has lagged behind the rest of the sector - but not the rest of the stock market it should be eaid.

The outcome of the strength of the pharmaceutical stocks since the onset of the great shake-out of 1984, is that they are now trading on price/earnings multiples of be-tween 13 and 15.

This appears to compare reasonably with the p/e of 20 on the Dow industrials, itself taking in a number of the old heavyweights which led the market downhill during Jan-uary and February, and which con-tinue to lie under a cloud as ana-lysts downgrade their profit forecasts on the expectation that the economy may slow down in the sec-

But the pharmaceuticals are twice hlessed, in that they are also

rest of the sector forward, a weak-ening in the dollar would be a major benefit to the 25 per cent of sales which come from outside the WASHINGTON PRESSED FOR EARLY SOVIET SUMMIT

Kohl urges fresh arms talks

BY STEWART FLEMING IN WASHINGTON

CHANCELLOR Helmut Kohl of West Germany yesterday urged the U.S. to consider entering into new arms control talks with the Soviet Union ahead of the presidential election in November. He also favoured an early summit meeting etween President Ronald Reagan and the new Soviet leader Mr Konstantin Chernenko, provided there was confidence it would not be exploited for propaganda purposes.

Interviewed on American televi-

sion, ahead of his planned meeting with President Reagan today, Mr Kohl made it clear that be is con-cerned about tensions between the U.S. and the Soviet Union. On tha

BY JOHN ELLIOTT IN NEW DELHI

attempt to cement its ties with India and to push negotiations for-ward on important defence orders -

at a time when India'e stance as a

leading non-aligned nation, plus its wish to buy the most efficient arms, has led it into new links with the

Marshal Dimitri Ustinov, the So-

viet Defence Minister and one of

the most senior figures in the Mos-

cow hierarchy, is visiting India for one week. This visit was postponed

just before the death last month of Mr Yuri Andropov.

His visit coincides with a sudden

rapprochement during the past few days between India and Pakistan

which could have significance ulti-

mately for the Soviet stance on Af-

ghanistan. Concern in Delhi about

the activities of Pakistan's troops on the border of India's northern

state of Kashmir seems to have

abated and on Saturday the foreign

secretaries of the two countries

agreed to resume talks in May on non-aggression and friendship

pacts, after a gap of more than a

Mrs Indira Gandhi, the Indian Prime Minister, at a time when she

is deeply disenchanted with the

developing countries.

U.S. over cuts in international aid to

In an interview at the weekend

with Forbes Magazine, her sympa-thy for the Soviet Union, which she said was fighting for nationalism not communism, contrasted sharply

with criticism of the U.S. which, she

Marshal Ustinov will be meeting

THE SOVIET Union will this week said, was "irked when we assert our

need to resume the superpower dia-logue be said that, irrespective of the sharp ideological differences, preservation of peace was such an important goal that every opportu-nity should be taken to further it. Mr Kohl made it clear that be in-

tends to press President Reagan on economic issues which are worrying the European governments, in particular signs of mounting protectionist pressures in the Congress and the U.S. failure to tackle the problem of the federal budget defi-

He said he understood the temp tations to introduce protectionist measures in an election year, but

freedom." There was no place in the U.S. global strategy for India.

comed in Moscow, they are made

partly for internal consumption in

India, where Mrs Gandhi wants to

win the backing in her forthcoming general election of one of the coun-

try'e two communist parties which

is currently split over her policies.

the visit so quickly after Mr Andro-

pov's death as the first major over-

seas trip since the change of leader-

ship, underlines the importance that the Soviet leadership continues

to give to maintaining and strength-

Mrs Gandhi is returning the com-

pliment by putting Marsbal Ustinov up in the Rastrapati Bhavan, the

Although the Soviet Union was

displaced last year by the U.S. as

India's major trading partner, its to-tal business with India far exceeds

that of the U.S. if its massive de-

This week a delegation of senior

defence chiefs accompanying Mar-shal Ustinov will be discussing

sales of aircraft, army equipment,

Observers believe that Moscow is

specially concerned that India is

turning to British Aerospace, Da-sault of France, and MBB and

Dornier of West Germany to select a partner to develop indigenous

production of a new light Indian

combat aircraft.

ening its ties with India.

presidential palace in Delhi

fence sales are included.

Moscow's interest in organising

While these remarks will be wel-

added "we will all ha worse off" if mistake to appoint a European to they are not resisted. On the budget be Supreme Commander of Nato. deficit, he expected little significant change in U.S. fiscal policy ahead of the November election, but added that he hoped for action after the election which would help to bring down U.S. interest rates and have a beneficial effect on the European

gestion by Dr Henry Kissinger, the former Secretary of State, that Western Europe should take on a greater responsibility for its conventional defence, Mr Kohl said that it would be a mistake to reduce U.S. troop levels in Europe, and a

But be underlined the importance to the West of the strength of the European as well as the U.S. pillar of the Western alliance, partly in order to resist anti-American and neutralist trends.

In this context, however, stressed that Western Europe had implemented the twin-track Nato decision and begun to deploy Pershing intermediate range missiles, citing this as evidence of the unity of purpose in the West.

Kissinger's plan for Nato, Page 15

Ustinov and Gandhi Progress unlikely in Sino-Soviet split to seek better ties

BY MARK BAKER IN PEKING

THE NEW Soviet leadership has rejected China's plea for significant make common efforts with us in the moves to break the deadlock in fourth round of talks to make subtheir relationship.

Mr Konstantin Chernenko, the

recently installed leader, used part of his first important speech to em-phasise that the Soviet Union would not make any agreement with China "to the prejudice of the interests of third countries." His statement indicates the same

attitude as that of the previous Soviet leadership: that Moscow will not accept China's demands on Kampuchea, Afghanistan and border troops, including those in Mongolia – the so-called "third countries." That has confirmed indications

that the next round of Sino-Soviet consultations, due to begin in Moscow next Monday, can only make superficial progress in fur-ther easing the 20-year rift between the two countries. China insists that relations can

be normalised only when the Soviet Union agrees to end its support for the Vietnamese occupation of Kampuchea, withdraw from Afghanistan and cut the number of troops and missiles deployed along China's northern borders.

Immediately after the death of President Yuri Andropov, a Chinese state councillor, Mr Ji Pengfei, appealed for a new effort towards rapprochement. He said the formal consultations, begun in late 1982, had not solved any of the three obstacles 'constituting a threat to

tion are at stake, and Maine has not

normally been seen as an important

test, the New Hampshire primary

vote has thrown the Maine cau-

In October, Mr Mondale won a

straw poll in Maine handsomely.

taking 51 per cent of the vote. In

theory, he should still be favoured

to win since he has spent heavily and campaigned thoroughly in the

state and organisational strength is

often the key in attracting support-ers to spend several bours debating the merits of candidates in a cau-

cuses into the spotlight.

"We hope that the Soviet side will

China and believed that could advance the role of socialism in international affairs.

"Political consultations show however, that there remain differences on a number of questions of principle. In particular, we cannot make any agreements to the preju-dice of the interests of third coun-

He hoped there would be an increase in contacts already being es-tablished in economic affairs, culture, science and other fields. The firm Soviet line in China's demands was emphasised in a statement by Mongolia late last

week, publicised by the Soviet news agency Tass, rejecting a reduction in Soviet troop levels in Mongolia. It said the troops were deployed at Mongolia's request, posed no threat to China and, as the issue was "exclusively an internal matter of our state," could not be an obsta-cle to normalisation

Western diplomats have previous concessions to China.

stantive progress in solving these problems," Mr Ji said.

Mr. Chernenko, in a speech delivered on Friday and circulated by the Soviet embassy in Peking, said the Soviet Union was a consistent proponent of normalisation with

ly regarded the estimated 1m So-viet troops and about 130 SS-20 missiles in the border areas as an issue on which the Soviet Union might have been prepared to make some

Wanderlust of the pension dollar evangelists rests heavily on the preequities. Since BAT derives a high-mise that U.S. pension funds are as proportion of its entaings from engaged in a structural redisposition. The steady depreciation of the

THE LEX COLUMN

dollar over the past month has given a cutting edge to the presenta-tions of fund managers as they tout their international investment services around the U.S. pension fund industry. Risk diversification models are all very well, but they are no substitute for a currency chart which promises quick and easy capital gains. To many of London's merchant

banks, the pension-fund manager in Pittsburgh has become the most glamorous figure in the investment business. As negotiated commissions threaten to squeeze the profit margin on domestic fund manage-ment, the FRISA funds of the U.S. pension industry offer a dazzling

Even the more cautious analysts of the industry confidently expect the foreign pool of U.S. pension fund assets to grow at a compound annual rate of 30 per cent or more for the rest of the decade. Last year, on a fairly conservative measure, these international funds under management shot from 57bn to \$11bn with the increase fairly broadly spread between new cash flow and market performance.

Foreign waters

Less than a quarter of U.S. pension funds have so far even dipped their toes into foreign waters. Pub-lic-sector bodies and most smaller corporations are still wary of foreign exposure while, even among the bolder funds, no more than 5 per cent of assets is on average invested outside the U.S. The convinced internationalists maintain that an industry average of about 10 per cent should be easily attainable. In current dollar terms, that

would represent foreign investment of \$80bn, roughly equivalent to the total capitalisation of West German stock markets. A capital outflow on anything like that scale would clearly have an important effect on the performance, and structure, of non-U.S. securities markets. The faith of the international

tion of their portfolios. Yet there must be at least a chance that the widespread diversification of the past two years is largely a bull mar-ket phenomenon. The pension ket phenomenon. The pension funds were after all released from the shackles on foreign investment as long ago as 1974. Yet the momen-tum of diversification has gathered

matching has substantially weak all track record. A disaster, or two ened, there is little evidence that there could perhaps affect sentithe opposite position – diversifica ment throughout the industry. tion reduces risk - has many committed adherents. To most pension fund managers, the theoretical ar-gument is one to be filed away in case trustees cut up rough in a bear market. It is notable that the funds have applied diversification models to the debt markets only to the

most limited degree. Some pension funds have certainly developed overseas portfolios to participate in developing industries; which are hardly represented in the

which are hardly represented in the U.S. or to gain an exposure to economies with greater long-term growth prospects. Tokyo has been the main beneficiary of this strategic approach. As this investment has frequently driven growth stocks to dizzy multiples, the pension funds have sought out equities which look extragely chean in relawhich look extremely cheap in relation to their U.S. counterparts or where an industry trend already visible in North America is not yet reflected. Yet this approach also has its limitations. Wall Street buying rapidly brings the relative rat-ings of Du Pont and ICI closer into

For international investment to build at the projected rate, pension. fund managers will have to take an increasingly global view of securi-ties trading. In several industries, such as oil or consumer products, foreign companies are already being regarded as substitutes for U.S. tionals.

Even if invested funds held on through n bear market, the enthu starm of fund managers poised to take, the phase might suddenly with Meanwhile established investas long ago as 1974. Yet the momentum of diversification has gathered ment advisers are already becomes trength only recently.

While there is no doubt that the shoestring international investment of the pension fund ment services and the figure to wards in house management by the grounds of balance sheet missing with unitably no international to the promise of balance sheet missing with unitably no international to the promise of the pr

Bear market

How this attitude will stand up to bear market is not immediately a pear market is not immediately obvious. In the early 1970s, the pears sion funds trapid invasion of the U.S. property market turned the wholesale retreat as values fall. So far, the issue has not been tested in foreign equities. Last year, despite the strong dollar, the Capital lineranticional World Table. national World Index provided a to-tal return of 23.4 per cent, ahead of that from the S & P Composite In-

In the less liquid markets, such as Sweden. Spain and Italy, a serious turn in sentiment could have a scramble to withdraw. In the late 1950s, heavy U.S. buying pushed the share price of Philips to roughly 35 times earnings as North American ownership of the stock rose to almost a third. When the turn came the Americans fled and the price

The mood is certainly diffe now and the prospect of a wholesale retreat to Wall Street by the U.S. ension funds is extremely remote. But only a bear market will show whether the international pensio fund dollar is as resilient as the investment dollar of the U.S. multins

Protest over Japanese typewriters

Continued from Page 1

comed what it regarded as "fair competition", it would emphatically oppose a "distorted competition ased on dumping. Olivetti's complaint will prompt

an investigation by the European Commission in Brussels. This will involve an examination of the Japanese production costs, domestic selling prices and overseas selling If there is obvious evidence of

dumping, the Commission could impose a provisional anti-dumping duty, pending the completion of a more detailed examination. The final duty would be settled to eliminate the dumping margin. Alternatively the Commission

could reject the complaint altogether as unjustified Japanese electronic typewriter

manufacturers have made inroads in the European market only in the last four years. They have speedily removed IBM, from its position as market leader with its Golfball typewriters, by providing low-cost au-

The Japanese producers - Silver Reed, Brother, Sharp, Panasonic, Ricoh, Tokyo Electric and Canon bave also eaten into the sales of Olivetti and of the two West German manufacturers Olympia and

Hart and Mondale face Maine clash

BY STEWART FLEMING IN WASHINGTON

the challenger who scored an upset victory in the New Hampshire primary last week, were squaring off yesterday for their first beadto-head confrontation in the race for the Democratic party's nomina-tion to challenge President Ronald Reagan for the White House in No-

The small and hleak New England state of Maine bas become the until tha party convention in San Francisco in July. Before his stun-ning defeat in New Hampshire, Mr runner in the race, had been claiming that he would roll over all the opposition and win the nomination with ease. By last Friday, Mr Mon-dale had changed his tune. He told a rally in Augusta, Maine: "I'm not

Perhaps as few as 20,000 registered Democrats in Maine were expected to attend meetings in 425 towns to publicly declare their allegience for one of the Democratic contenders. But with Senator John Glenn having already disbanded his campaign organisation in Maine to save money, and the Rev Jesse Jackson and Mr George McGovern

FORMER Vice-President Walter not seen as active contenders eith-

Mondale and Senator Gary Hart, er, only Mr Mondale and Mr Hart are given a chance of victory. Both candidates changed their campaign intineraries oo Saturday to pay last-minute visits to Maine, which is now being seen as an im-portant test of Mr Mondale's ability to rebound from his defeat in New Hampshire and slow the momentum which Mr Hart picked up with

hattleground for a contest which Mr Mondale himself conceded at the weekend may not finally be decided Mondale, to that point the frontthe front-runner; this is a very tight

Gulf Oil and Arco explore terms for bid

Continued from Page 1 around \$36 to \$69% last Friday where it capitalises the company at

The Pickens group, which already holds a 132 per cent stake in Gulf, is in the midst of a \$65 per share offer for another 6.1 per cent of Gulf, and most observers feel that in the absence of any rival bid, the Pickens group would be able to win control of Gulf. that victory. Although only 27 of the 3 933 delegates to the July conven-In what looks like an admission

of defeat the Gulf board announced on February 24 that while it thought the Pickens offer was "unfair and inadequate" it had authorised its advisers to "explore all alternatives". Last week Gulf confirmed that it was in talks with several companies regarding a possible merger.

Arco is regarded as the frontrun-ner for Gulf'e hand. The group has already lined up a \$10bn plus credit line which it will use to finance any offer, and Mr Robert Anderson, Arco'e chairman, is known to have had several conversations with Gulf'e senior executives, including discussions of a \$70 per share offer, ac-cording to Mr Pickens.

Mr Mondale, however, has sig-nalled his concern about Mr Hart's challenge by altering his campaign strategy and directly attacking him over the past few days. A Gallup poll just published by Newsweek The possibility that Gulf will lose its independence has been height-ened by the willingness of the U.S. anti-trust authorities to nod through Texaco'e \$10.1bn takeover of Getty Oil earlier this year.

Pericom Data Systems are expanding in Milton Keynes.

Find out more about moving your company to Milton Keynes. Contact: The Commercial Director, Milton Keynes Development Corporation, Wavendon Tower, Wavendon, Milton Keynes, MK17 8LK. Tel: (0908) 74000

World Weather

twice hlessed, in that they are also regarded as defensive stocks whose profits from inside the U.S. are likely to be maintained even if belts have to be tightened again in some economic areas.

Moreover, if the dollar does fulfill expectations by falling during 1984, then pharmaceutical stocks still have plenty of scope to respond. In the case of Abbott Laboratories, which has been slow to follow the rest of the sector forward, a weakening in the dollar would be a ma-

Syria in troops pact

Continued from Page 1

ment would be made today signalling the end of Lebanon's woes. President Gemayel met Mr Fran-jieh and Mr Rashid Karami, a former prime minister, in north Lebanon over the weekend.

The agreement reached between the Syrian President and the Lebenese opposition leaders yesterday would mean that the Lebanese Cabinet, which resigned last month, temporarily to legalise the cancella-tion of the troop withdrawal pact Our Tel Aviv Correspondent re-

reaction from Israel last night to the Damascus appouncement Previously, however, Mr Yitzhak Shamir, the Israeli Prime Minister, had made clear that in the event of

an abrogation of the withdrawal pact, Israel would feel free to take whatever military measures it might feel necessary in south Lebanon to safeguard the security of its northern border.

Mr Shamir said last week that
Israel would not feel itself bound by

any of the limitations it agreed in the May 17 agreement, reached after months of tortuous negotiations between Lebanese and U.S. del-

etana Eine ್ಷಕ್ಷ್ಯ ಪ್ರಕ್ಷಣ ಕಿರ್ಮಾನಿಕ 912 E TEX 54. 22"3 ... to the contract of the contrac EDS.T.LY. TELL ITTE

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Cash-rich banks offer good terms to corporations

BY PETER MONTAGNON, EUROMARKETS CORRESPONDENT

THERE could somety be a more. Arco, whose credit is led by Chase

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ring international

loan ever, it is also being put togeth— All participants will thus have to er in the space of little more than a be very large institutions with esweek, as Acco expects to be able to tablished relations to the borrower. sign the credit this week. It needs These are precisely the sort of the funds to buy Gulf Oil, with banks which are most liquid; there which it is now in discussion. Like is still much less certainty how far many other jumbo credits for oil in-this liquidity permeates through to dustry majors, this deal could al-ways unravel if the takenver talks into syndicated loans at a junior fall.

ing the conclusion that banks have \$500m credit signed last year hav plenty of money at their disposal not yet decided on their reply to its for clients they like. Increasingly nowadays those clients are corpor favourable terms, although some ations rather than sovereign states. bankers believe that a compromis According for the first two. It wards the end of the week.

will pay a margin of 's per cent over Banks are also still awaiting a de Eurodollars for the first four years, cision from the Soviet Union's For rising to % per cent for the next four with a commitment fee of % point. Alternatively, banks may subscribe a mixture to be determined by the borrower of Eurodol-line of the borrower of Euro centage point higher margin over date has been awarded.

Certificate of Deposit rates.

those a top-rated European government on the rescheduling ment could command in the market today, but they are more generous to leaders, than those on another corporate deal—the \$650m credit being, assembled for Shell Petro-year Agentina, Neder, also served to the server of Renk Media.

bankers report that it carries a marbankers report that it carries a margin of only it per cent over Eurodollars for four years. Shell wants the
money to buy the shares in Shell
Oil Co, that it does not already own.

Two factors seem to have dictated replying till its talks with the ed the more generous approach of IMF were complete.

THERE could acknowly be a more Acco, whose credit is led by Chase telling indiciples of liquidity in the Manhattan. First is the need for international banking system than the \$120n steprise credit spring on the deal Only about 100 banks have the Envised factor hast week.

Richfield (Acco) last week.

Richfield (Acco) last week.

Richfield (Acco) last week.

All participants will thus have to

Elsewhere, banks in Ireland

imned by the borrower of Eurodol-lars at the same margins and U.S. about another \$100m credit, prob-domestic dollars priced at a 'k per-domestic dollars priced at a 'k per-Arab institutions, although no man-

These terms are comparable with This week should see some fres

leum, by: Algemene Bank Neder ple with the International Moneland.

Neither Shell nor the bank will should pave the way for progress in confirm the terms of this credit, but talks with international banks in

INTERNATIONAL BONDS

Saturation worries prompt frills on FRN deals

when the plain "vanilla" bond disappears, to be replaced by one with bells and whistles attached. It means that investors at the margin have to be lured back by the prospect of something new and nttrac-

But the deal as a package has still to be good value for the gim-mick to do its stuff, as two deals launched last week amply illustrat-

Danske Olie & Naturgas (DON) for people who are borror the Danish state oil company of ey in order to buy FRNs. fered \$100m of floating-rate notes

IT IS usually a sign of near-saturation in the Eurobond market when the plain "ranilla" hand disan-rate (Libor) through Goldman matching their funding – that is, Sachs and Morgan Stanley. Al-though the interest is paid quar-terly, it is recalculated every month. So, if rates rise, the coupon will adjust much more quickly than is monthly basis, investors can feel the case on normal FRNs where pretty safe borrowing monthly, and coupons are set only as often as they are paid.

In a bearish market like this one, more frequent setting seems attractive. But it also has an advantage for people who are borrowing mon-If interest is set and paid only

borrowing more cheaply for a shortous if rates move against them. But if the interest is also set on n pretty safe borrowing monthly, and can usually pick up the healthy margin between the one-month Libor at which they borrow and the

three-month rate they are paid. The only danger arises if three-month Libor falls below the onea % point differential, which has alcent selling concession.

BHF Bank bond average pon reset every three months. Although it had the same funding advantages, investors considered the

terms to be too aggressive and the issue traded at a discount greater

than its 0.75 per cent total commis-

the last two years.

This twist to the DON deal allowed the borrower to raise money on cheaper terms than Denmark itself did in January. But it was also popular with investors and traded at a discount well within its 0.20 per

Thailand, by contrast, used combines the marketability of a roughly the same formula on its floater with the spreads available in \$85m FRN led by Manufacturers the Eurocredit market. Hanover. Its bond paid % per cent over six-month Libor, with the cou-

move from syndicated loans to FRNs has gone too far and is likely to rebound. But the banks as investors are loath to relinquish the ability to buy and sell their assets.

One answer might be to increase the use of Euronote issues, in which Another sign of investment bank- paper is placed with investors who ers' worry about the FRN market's can either hid at a tender panel capacity to absorb much more pa-per is that many are trying to con-at a price they choose or can resell coct a hybrid instrument which it back to the lead manager.

S. BOLLARS	ш.		years	Coupon %	Price	Load Manager	Offer yield %	Berrowers	Amount m.	Maturity	Ay, life years	Coupon Me	Price	Lead Menager	Offer yiek
ociete Generale 1‡\$	250	1994	18	1/2	180	Soc. Generale, Bk. of America,		SWISS FRANCS EMIER **1 ESCOM **1	50 100	1989 1989	=	63/4 51/4	188 18874	SBC Bank Lau	6.750 6.198
usio Computer Co. ¶‡	60	1989	5	5%	100	Merrill Lynch Baiwa Europe	5.875	Manusen Co. ** ¶	30	1989	Ξ	31/2	100	Swiss Volksbank	3.506
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. Western Fin. 11	188	1994	10	1/2	100	CSFB	_	Royal Bk. of Canada 10	85	1989	5	101/2	10914	Grion Boyal, BBL, Kradiethank Intl	Can
alland 11	85	2000	18	Vs	100	Man. Hanever, Dresdner SE Asia	LTCB	unian per on Panana 1.25	83	1303		1072	100 44	Gen, de Baue,	16,433
						hoti., Mitsakishi Fin,	_	South Africa Q‡	48	1999	15	1174	100	CCF, Kradiethank Luc., Bill.	11,250
reske Olie & Naturges 1(b)†	108	1599	15	1/2	100	Goldman Sachs, Mgn. Stanley	-	ANZ Bleing Grp.	50	1991	7	182/4	10074	BBL Sal. Bros., ANZ. BNP.	11.230
ue, indosuez †(a)‡	150	1999	15	V 4	100	CSFB, Bque, Indospez, Deutsche	-	wer name arbit	36	1331	•	14-14	10074	Enskilda Secs., Kredietbank	
														Intl., Sec. Ges. de Bose.	10,897
MARKS								RATP	40	1392	7.025	107/s		Credit Lyonnais, CCF, B&L	, 0.037
ppon flour Mills ¶±	30	1989	5	31/2	160	Bay, Vereinshank	3.500	RATP	20	1994	9.5	11		As above	
rrevie delle State I	198	1991	7	8	991/2	Commerchank	8.096	FEE	60	1991	7	101/2	•	Caisse Gen. d'Espargne	
estria I	200	1994	18	75%	1801/4	Drawiner Bank	7,588		-		•			de Retraite	
meriedansinstituett **†	38	1989	5	71/2	100	Commerciank	7.875							right reputation	
	30	1303	•	774	,	Compo Ziana	7,013						1		
VISS FRANCS								GIMEDERS Bik. Mees & Hope I	180	1994	10	81/2	101	Bk. Mees & Hope	8.260
luremen Sode **§‡	58	1989	_	2	108	UBS	2.000	not woon a unite t	100	1334		972	101	DK, MOGS & HOPE	الاعتبات
par Asiation Flec. **51	40	1985	_	5	100	SBC	2.000							•	
5 1	100	1992	-	57/4	100	SBC	5,758	YEN							
MČ RI:	180	1996	_	51/4		Seditic, Man. Stanley	5.250	AVASA **I	5ba	1994	9	8.4	160	Nippon Credit Bank	8,576
t. Provident Fund, M.Z. **1	106	1985	_	5%	100	SBC, CS, BBS	5,375	Ireland I	15bq	1994	9	7.6	99.7	Danna Secs.	7,790
tsei OSK lines "1	108	1989	_	53/4	100	SEC	5.758	Eurofina 1	10ba	1994	18	73/0	100	Noosura Secs.	7.375
Not yet priced. 2 Final term		** Placemen		5 Convertib		† Heating rate note: coupon is spe		month Liber. (a) Spread over						ver 3-month Libor. 9 With	vverrents

These Bonds having been sold outside Canada and the United States of America,

FIRSTCHY

FIRSTCHY FINANCIAL CORPORATION LTD.

VANCOUVER, CANADA

U.S.\$ 66 000 000

Bonds of 1984 due 1992/94 Interest payable in Swiss Francs at the rate of 8 % % p.a. on the aggregate subscription price of

Swiss Francs 110 000 000

SODITIC S.A.

BANQUE DE PARIS ET DES PAYS-BAS (SUISSE) S.A. BANQUE KEYSER ULLMANN S.A.

Amro Bank und Finanz Bank Rousser & Clo AG Kredielbank (Suisse) S.A.

Banca Unione di Credito Bank in Liechtenstein AG Banque Indosuez, Succursales de Suisse

Banque Scandinave en Suisse Hottinger & Cie

Overland Trust Banca The Royal Bank of Canada (Suisse) Volksbank Willisau AG

Bankers Trust AG Banque Gutzwiiler, Kurz, Bungener S.A.

Bank Leumi le-Israel (Schweiz) Bank Oppenheim Pierson (Schweiz) AG Banque de Participations et de Placements S.A. Compagnie de Banque et Investissements, CBI Nippon Kangyo Kakumaru (Switzerland) S.A. **Privat Kredit Bank** J. Henry Schroder Bank AG



U.S.\$30,000,000

Hill Samuel Finance B.V.

Floating Rate Notes due 1996

Unconditionally guaranteed as to payment of principal and interest by

Hill Samuel Group Plc

MORGAN GUARANTY LTD

HILL SAMUEL & CO. LIMITED

BANQUE NATIONALE DE PARIS

CREDIT SUISSE FIRST BOSTON LIMITED

DEUTSCHE BANK ARTIENGESELLSCHAFT

Morgan Stanley International

SWISS BANK CORPORATION INTERNATIONAL LIMITED

All of these securities have been sold. This announcement appears as a matter of record only.

U.S. BONDS

Underlying mood still grim despite late rally

by Wall Street dealers that the market may have been oversold.

But the late rally disguises the real malaise of the market. Retail investors are steering clear of the long issues—preferring to stay short or to stay short or to the long issues—preferring to th ferring to stay short or to avoid the market altogether

— reinforced once again last week by warnings from Mr Paul Volcker, the Fed chair-man, about the implications of the twin budget and trade

U.S. INTEREST RATES (%)

Fed hands weakly everage 9.52 9.00
3-month CDs 8.75
3-month T-bills 9.14 6.18
30-yeor Treasury bond 12.09 12.18
AAA Utility 13.00 13.00
AA Industrial 12.68 12.88
Source: Selemon Brae. (estimates).
In this week ended February 20 M1
rase by \$1.7bn to \$534.7bn.

Concerns about the pace of the economic recovery and the first real indications of a broadbased upswing in private credit demands are heightening inflationary concerns at e time when the Federal Reserve Board's already slim room for manoeuvre is seen as disappearing altogether.

The credit markets remain deeply cynical about presidential and congressional attempts to cut the budget deficit in an election year despite the three-year \$50bn deficit cutting proposals which emerged from the taxwriting house ways and means committee late on Friday.

While uncertainties remain and no firm consensus has emerged, many economists now believe that the Fed may soon have little choice but to firm in order to maintain its anti-inflation credibility—particularly if the economic statistics continue to show the economy bounding ahead. For this reason the markets' attantal this reason the markets' attention is now beginning to focus

LONG-TERM U.S. bond prices slumped to their lowest levels for almost six months last week before bouncing back in a thin-based rally spurred by a smaller - than - expected in crease in MI and a perception by Wall Street dealers that the market may have been oversold.

ferring to stay short or to avoid the market altogether fearing the potential for further price declines.

While the markets' loss five full points since middle for full full to a low of 98% at one point on Tuesday to yield 12.21.

per cent—the highest yield aince August last year. Even at those levels retail interest was virtually non-existent. By the end of the week the late rally had lifted the price to 991 a 10 basis points gain over the previous Friday's close— demonstrating the market'e high volatility.
In contrast, although short-

term rates have moved sharply higher since January, they remained virtually unchanged last week with the three month T-bill rate trading within a 3 basis point range and closing at 9.15 per cent.

The pressure to stay short is also apparent in the corporate market. Until last week the cumulative total of corporate new issue volume had managed to outpace the comparative 1983 figure. But last week, with just \$625m of new corporate debt issued, the total so far this year grew to \$9.9bn.

Meanwhile short-term borrowing has picked up smartly. Business borrowing at U.S. banks and non-financial commercial paper grew at a 19 per cent annual rate between the start of the year and mid-February. Intermediate prices in the

corporate bond market rose by a moderate ? points last week while long-term prices declined by about 2 point. Among the new issues launched, United Brands sold \$100m of 142 per cent 25-year debentures at par and Beneficial Corporation sold \$75m of 5-year notes with 12.6 per cent conpon at par.

HK returns to domestic borrowing

THE HONG KONG Government one-third of its expenditure. free reserves, the government which has some HK\$700m of is expected to announce shortly. The collapse of Hong Kong's is covering half the shortfall paper outstanding in the marthet terms on which it will seek property market means that with a bond issue. The offer to raise HK\$1bn (\$128.5m) land is being sold cheaply if will be made by open tender, undrawn underwritten facilities through a Henry Kong delivate the case of the control of the con through a Hong Kong dollar-de-nominated bond. The coupon Much has yet to be decided, but it fiscal r be five years.

be five years.

The issue will mark the Hong Kong Government's first issue of domestic debt for nine years. In 1975 it raised HK\$250m in s five-year bond issue.

Helped by a succession of budget surpluses, Hong Kong had not needed to borrow further, having built up reserves which are likely to stand at HK\$15.8bn at the end of March, 1984.

ment incurred a budget deficit of HK\$3.5bn and for 1983-84

the deficit is likely to be HK\$3.3bn.
The cause of this lurch into the red is a slump in the land-sales revenue with which the sales revenue with which the Rather than see the coming market is the work of the Mass Government used to fund up to year's deficit eat fully into Transit Railway Corporation,

and local analysts believe the Much of the Government's fiscal reserves, meanwhile, are pledged to guarantee "off-balance-sheet" debts such as those of the Mass Transit Railway Corporation, which is Government-owned but which is Government way end up paying around nine per cent for indiation this year in those of the Government's around nine per cent for indiation this year in those of the Mass Transit Railway is such as the control of the Government way end up paying around nine per cent for its money—roughly the expected level of indiation this year in those of the Mass Transit Railway is such as the control of the Mass Tran

throw up a benchmark pricing for fixed-interest Hong Kong dollar debt which will be useful to potential private sector issuers.
A local bond issue from the

private sector is more of a pious

hope than a probability at present, with Hong Kong's financial markets only now settling down from their poli-tically-induced volatility of 1983. A fiedgling market in short-term commercial paper is, however, gaining a little depth. cover for contingencies, and The pioneering of the Hong HK\$8.2bn as "free" reserves. Kong dollar commercial paper

undrawn underwritten facilities available.

The Hongkong Land Com-pany has issued two tranches of about HK\$50m each. Jardine, Matheson, the sister-company of Hongkong Land, is expected soon to issue up to HK\$300m, and an associate of China, Light, and Power, one of Hong Kong's two local utilities, up to HK\$250m.

A secondary market has yet to develop, but local banks working to nurture it include Jardine-Fleming, Wardley, Barclays, and Citibank. The pricing of Hong Kong commercial paper is usually over Hong Kong inter-bank Rate, though the Mass Transit Railway has part of its facility priced over local prime. The MTRC is also thought to be considering a further innovation, an issue of U.S.\$ denominated commercial paper.

Occidental to buy back preferred stock

BY WILLIAM HALL IN NEW YORK

OCCIDENTAL PETROLEUM is purchase will be financed begins \$333m to buy back some bank borrowings. paying \$383m to buy back some of its Preferred stock. The move is part of Occidental's efforts to strengthen its balance sheet following the 1982 acquisition of Cities Service.

As part of the deal the group

ued \$1.6bn of Preferred stock,

The stock is a relatively expensive form of financing and the dividends cost Occidental \$368m in 1982. Last year-the group purchased 1.4m shares of its Cumulative Preferred stock. Dr Armand Hammer, the 85-year-old chairman and chief executive of the Los Angeles not disclosed, reports AP-DI, based energy conglomerate, amounced last Friday that not been any production at the Occidental had agreed to purfacility for some time." Deere chase from Drexel Burnham Lambert 3m shares of

Since it acquired Cities Ser-

Since it acquares the moved vice, Occidental has moved surprisingly quickly increducing the heavy financial burden it was forced to take on Last year it cut its debt from a peak of \$6.3bn to under \$3bn

. Deere, the U.S. farm equip. ment producer, said its Mexican affiliate John Decre has acquired the farm equipment manufacturing facilities of International Harvester in Saotillo, Mexico. Terms were not disclosed, reports AP-DJ.

said production at the Sastillo factory will be phased in as preferred stock at \$111; per increases. Production will be share. It is expected that the mainly tractors

Brown Boveri Group makes senior changes

Or Werner Thommen is to of Baden, and a Member of the Brown Boveri Group's managing committee on April 1. He is foreseen as successor of Mr Erwin Bielinski as head of Brown Boveri International. Mr Blelinski will himself take over the Swiss division from Mr Heiner P. Schulthess, who will take over responsibility for corporate planning and assume management of the group's medium manufacturing companies' division. This is currently headed by managing committee chairman Mr Flero Hammel. At the sams time, Dr Thomas P. Gasser, head of group finances, will additionally take over responsibility for corporate marketing.

elected to the governing board of the U.S. investment bank, L. F. ROTHSCHILD UNTERBERG TOWBIN, of New York. He is chief executive of Charterhouse J. Rothschild, which has a 50 per cent interest in L. F. Betheville Unterberg Toward. Mr Helmut Maucher, manag-Paul Taylor ing director of Nestle SA, is at the shareholders' meeting of CREDIT SUISSE on March 23

to be nominated to the board. He will succeed Dr Arthur Fürer, currently chairman of Nestle, who is to become chairman of Bank Leu, another of Switzerland's "Big Banks."

future contingent liabilities against current fiscal reserves. Thus out of the HK\$15.8bn

reserves which will be available to the Government at the

end of the current financial year, HK\$7.6bn is regarded as

 SEARLE LABORATORIES has appointed Mr Waiter Spath vice-president of communica-tions, succeeding Mr Donald E. Burggrabe, who has elected to join Searle's department of industry affairs as executive director of professional rela-tions for the western region. Mr Pierre-Alexandre Mamin has been appointed manager of CHARMILLES TECHNOLO-GIES, of Geneva. He succeeds Mr Juzy Anderegg, who remains managing director.

 Mr Harry J. Gray has agreed to continue for a further year as chairman and chief executive as chairman and chief executive officer of UNITED TECHNOLOGIES CORPORATION until December 31 1985. He will reach noumal retirement date on December 1 1984. Mr Gray is a director of Citicorp and Citico

• Dr Alan R. Timms has been appointed director, research and development, for MONSANTO'S health care division in St Louis, Missouri. Dr Tomms joins Monsanto from Sandoz Inc, where he was most recently director, group pharmaceutical development and as a member of the Sandoz

INTERNATIONAL APPOINTMENTS

Mr Alex S. C. Wu has been appointed a non-executive direc-tor of the now Hong Kong-based BSR INTERNATIONAL His appointment represents a further step in the policy of increasing the non-executive representation by outside directors on BSR's



Mr Alex Wu, non-executive

of several Hong Kong public companies including Green Island Cement Company, Hong Kong Aircraft Engineering Company, Longman Group (Far East), Asla Dairy Industries (HK), and Dai Nippon Printing (HK)

• Mr joined Roy T. McLamore has LONDON MERCHANT

chief executive officer and chief executive officer and a member of the board of its wholly-owned subsidiary LMS American Holdings Corpn-(LMSA). New York, Prior to joining LMSA, he was with the MASCO Corpn and served as chief executive officer of Zenith Exploration Co, where LMSA and MASCO are majority shareholders. Mr McLemore will remain chairman of Zenith.

The SOUTHEAST BANKING CORPN board of directors has elected Mr Joseph E. Thompson senior vice-president, administration, and corporate secretary. He will be responsible for the legal, regulatory and corporate affairs functions of Southeast Banking Corpn and Southeast Bank. His responsibilities also include the public relations include the public relations department, Southeast Banking Corpn Foundation and South-east's fine arts department.

east's line arts department.

• Mr Joha J. Ford, former staff director of the House Armed Services Committee, has been elected vice-president, government affairs of AVCO CORP. He replaces Mr John B. Kelley, who has retired after 20 years with the company. Mr Kelley will remain a consultant.

succeeding Mr Wells in this responsibility immediately.

CHRYSLER CORP has made four executive appointments in the corporate procurement and supply office. Mr Thomas T. Stallkamp is appointed director of production purchasing Mr James

estate lending operations. Wr D. Ray Spratt, Mr Michael H. Walters and Mr Gary L. Williams have been named assistant vice presidents and Mr John H. Poplenick has been named financial sales officer. possibility immediately.

CHRYSLER CORP has made four executive appointments in the corporate procurement and supply office. Mr Thomas T. Stallkamp is appointed director of production purchasing. Mr James T. Watson, has been appointed director of body and trim purchasing; and Mr Romald A. Maleske, director of power train Majeske, director of power train and chassis purchasing. Mr Barry D. Price is named director of facilities purchasing. Mr Stall-kamp succeeds Mr Conrad T. Coen, who was recently named to the newly-created position of director, purchasing quality and

supplier relations. supplier relations.

• Mr Engene C. Smith has been named senior vice president, operations of CNG PRODUCING COMPANY, New Orleans, an exploration and production subsidiary of the Consolidated Natural Gas Company. He was the subsidiary's vice president, operations. operations.

Tames T. Verfurth and Mr John D. Wadhams have been named senior vice presidents of BARCLAYS AMERICAN CORP. Mr Hirsch joined Barclays American/Business Credit, a wholly-owned subsidiary of

· Mr Rudolf Strump has been appointed group management chairman of HERO CONSER-VEN, the Swiss-owned food pro-cessing concern, following the upgrading of the Swiss national mangement to a group leader-ship function. Mr Fredy P. Kers, head of the former subsidiaries

mangement unit, has been giv special duties abroad. o Dr Hermann Odermatt has joined the board of EUROPEAN GENERAL REINSURANCE COMPANY of Zurich. Mr Arms Schuetz and Mr Willy Brappacher have left the board. Mr Douglas A. Henderson has Mr Douglas A: Henderson has succeeded Mr Firman G. Bentley as managing director of POLYSAR INTERNATIONAL, Friborg. Mr Bentley remains company chairman At the same time, Mr William Burns. Mr Jenathan C. Rebinson: and Mr Neil B. Roberts have been appointed managers.

American/Business Credit, a appointed managers wholly-owned subsidiary of GWENS-ILLINOIS INCS dent, industrial chemicals division of THE PROCTER AND 1973 and was promoted to officer Mr. Robert Langan, will GAMBLE CO, will retire on February 29. In anticipation of his retirement, Mr. Frank P. Smith currently associate manager, industrial chemicals division, is appointed manager, industrial chemicals division, launching the company's real man.

All these Notes have been sold. This announcement appears as a matter of record only.



Mitsui Finance Asia Limited

U.S.\$100,000,000

Guaranteed Floating Rate Notes 1996

Issue Price 100 per cent.

Unconditionally guaranteed as to payment of principal and interest by

The Mitsui Bank, Limited (Kabushiki Kaisha Mitsui Ginko) (Incorporated with limited liability in Japan)

Mitsui Finance Europe Limited Goldman Sachs International Corp.

Algemene Bank Nederland N.V.

Bank Leu International Ltd

Chase Manhattan Capital Markets Group Citicorp Capital Markets Group

Credit Suisse First Boston Limited

Deutsche Bank Aktiengesellschaft

Merrill Lynch Capital Markets

Nomura International Limited

Smith Barney, Harris Upham & Co.

Swiss Bank Corporation International Limited

Hambros Bank Limited

Banque Nationale de Paris **Chemical Bank International Group**

Salomon Brothers International Limited

Bank of America International Limited

Commerzbank Aktiengesellschaft

Daiwa Europe Limited Manufacturers Hanover Limited

Morgan Guaranty Ltd

Samuel Montagu & Co. Limited

Orion Royal Bank Limited

Société Générale S. G. Warburg & Co. Ltd.

Wardley

March, 1984

FT INTERNATIONAL BOND SERVICE

Shikoke Elsc. Pwr. 8 91 100 1101½ 102½ -0½ -0½ 5.57 60c, Lm. Crc. 5½ 53 100 983 100 -0% 0 5.76 Smiltone Hvy. 1. 6 91 100 1101½ 1012 -013 -0% -0 5.76 Tohoke El. Pwr. 5½ 32 100 150½ 100 -1½ +1 5.77 Trizec Corpn. 6½ 53 ... 100 101 101½ +0½ +0½ 5.96 World Benk 5½ 94 200 95% 39 -0½ +0½ 5.39 Average price changes...On day -0% on week +0½

OTHER STHAIGHTB

Br. Col. Hyd. 12 93 CS

Br. Col. Tel. 12's 99 CS

Br. Col. Tel. 19's 91 CS

Br. More Hope 8 SF Fr

Br. Tol. 19's 91 CS

Br. Col. Tel. 19's 91 CS

Br. More Hope 8 SF Fr

Br. Tol. 19's 91 CC

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EUROBOND TURNOVER (nominal value in \$m)

Cedel clear Last week..... 7,415.7,19,339.1 Other bonds

Last week ... 2,172.4 1,439.9 Previous week 2,112.8 1,513.5 * No information available-

previous day's price.

† Only one market maker supplied a price. STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is in millions of currency units except for Yen bonds where it is in billions. Change on week

Change over price a week earlier. FLOATING RATE NOTES:
Denominated in dollars unless
otherwise indicated. Compon
shown is minimum. C.dte=Date
next compon becomes effective.
Spread=Margin above six-month
offered rate (#three-month;
§ above mean rate) for U.S.
dollars. C.cpn=The current
compon. C.yld=The current
yiold.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Chg. day = Change on day: Cnv. date=First date for conversion into shares. Cnv. price=Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem=Percentage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares. The list shows the 200 latest most recent price of the shares.

The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past weak were supplied by: Kredietbank NV; Credit Commercial de France; Credit Lyonnais; Commerchank AG; Deutsche Bank AG; Westdeutsche Landesbank Ginzentrale; Banque Generals du Luxembourg SA; Banque Internationale Taurembourg; Kredietbank NV; Pierson, Heldring and Pierson; Credit Suisse/Swiss Credit Bank; Union Bank of Switzerland; Akrayd and Smithers; Bank of Tokyo International; Blyth; Eastman, Paine, Webber International; Chasse Manhattan; Citicorp International Bank; national; Chase Manhatin; Citicorp International Bank; Credit Commercial de France (Securities) London; Daiwa Europe NV; EBC; First Chicago; Goldman Sachs International Curporation; Hambros Bank; HJ International; Kidder Peabody International; Merrill Lynch; Morgan Stanley International; Nomura International; Orlon Royal Bank; Robert Fleming and Co.; Samuel Montagu and Co.; Scandinavian Bank; Societe Generale Strauss Turabull; Sumitomo Finance International; Sumicomo France International; Senk Corpyration International; Wood Gundy.

Closing prices on March 2

Closing prices on March 2

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Orion Royal Bo Algemene Bani Anno Internaci Bank of Tokuca Banque Bruxel Banque Genera Banque Nation Banque Pariba Commercias

Credit Suisse F Bensche Bank active and active and active and active acti COLL SECTION

FINANCI

EQUITIES

UK COMPANY NEWS

Ice cool and well-conditioned

Ray Maughan traces the

EVEN BY comparison with his ever-sective working life, these the bulk of the acquisition are flusy times for Mr David through a f7.7m rights issue. Its his issued the class f document property, was £15.27m. State to shareholders in Soter equipment, refrigeration and group, Mr Abell explained at the equipment, refrigeration and improper continued despite stringent cost pressor and alr-ponditioning money—but the losses pressor and alr-ponditioning money—but the losses pressor and alr-ponditioning money—but the losses pressor and alr-ponditioning division went fine specification which for fim, about asset valus, to should go to Copeland," he adds, browned up as Mr Christopher Riordan. International after communication in Stake in Suter.

stake in Suter. On the following day, Mr Abell was due to watch his new steeplechaser, Mick's Ritual, run steeplechaser, Mick's Ritmil, run at Market Rasen and today he expects to receive planning permission for the sale of surplus land at Theade in Beristine.

Mick's Ethnil's form under the handling of Mr Paul Felgate, the newly appointed trainer may be a matter for the bookmakers but is now on course for thoroughbred earnings growth.

His has been involved with Suter since February 1978 when, with Mr Jeffrey Pike, the former head of Tremletts, he took a commanding 30 per cent stake.

When Mr Abell left Buitish before nominal tax

Leyland in Jameary 1981 after

Copeland Corporation of Searle and the RA air-con-

a stratter tor

Mr Abell, is convenied man

is now on course for thorough
bred earnings growth

His has been involved with
Store since February 1978 when,
with Mr Jeffrey Pike, the former
head of Tremletts, he took a

commanding 30 per cent stake.

When Mr Abell left British
Leyland in January 1981 after
spiells as corporate treasurer, and
chairman and chief executive of
BL Special Products and Commercial Vehicles divisions, it
seemed natural that his first
exemised natur

elements at Leviand Special Products, but never seemed to find a place in BL's overall structure in the reconstruction which followed the integration of other elements at Leviand Special Products. NRS is expected ducts, but never seemed to find
a place in BL's overall structure in the reorganisation which followed the integration of other special products activities into Started its expansion. He sdmits started its expansion. He sdmits now that "we got off to a poorish Suter paid BL film for Prest-start and I take the blame for Mr Abeli claims that Suter has

group, have beth seen Suter and Mr Abell come and go in receot years, and latterly Mr Abell bas turned up on the board and the register of Downs Surgical, oow subject to a hld from Smiths Industries and Lake and Elliott, the steel foundry group, which has recently undergone a management shake-up co-ordinated Hambros Bank.

Hambros Bank.
Suter has paid particular attention to Francis Industries, the packaging and industrial products group, and its 25 per ceotplus shareholding was enough recently to block Francis' plans to cut debt by buying in early its outstanding lean stock. Mr Abell's presence has, he says, taken Francis' shares out-ide his buying cause and much says, taken francis spares outside his buying range and much the same rise has taken place at RHP Group, the hall-bearings manufacturer which like BL, was put together in the 1960s by the Industrial Reorganisation Corporation

Industrial Reorganisation Cor-poration.

Suter has 2 per cent of RHP, acquired at about 35p per share, but the subsequent 20p share price increase may have de-fiected Suter's ambitions for RHP's electrical products

RHP's electrical products interests...

Wherever his share dealings take Suter, Mr Abell remains highly confident about the group's future. "We're going to shatter people," he declares.

Order books higher at Allied Textiles as demand holds up

ORDER books for most of the busicesses of Ruddersfield-based Allied Textile Companies are

businesses of Huddersfield-based Ailled Textile Companies are currently better than at this time last year, says Mr C. Russell Smith in his first annual statement as chairman.

The improved trading conditions which arose in the 12 months to September 30, 1983, when pre-tax profits rose by £310,000 to £3.5m, are still evident in most parts of the group, he reports; adding that he lioves they have benefited from the lower value of the pound.

As regards the future, he says the group continues to investigate opportunities to acquire other textile businesses.

BOARD MEETINGS

Tho following companies have soxified date of meetings or usually lead for the purposo of coasidering dividends. Official indications are act wildelens. Official indications are act wilde gate opportunities to acquire other textile businesses, but regularly finds the likely returns compare unfavourably with those

available from financial invest-ments with minimal risk. Opportunities for increasing the companies textile activities, he says, are likely to continue to stem from organic growth in the manufacture of sensitivities.

the manufacture of speciality textiles and goods for non-apparel end use.

He concludes that the group's traditional business is generally more stable than for some years past, with reasonable halance between supply and demand, but between supply and demand, but with no readily ideotifiable prospects for significant growth.

As reported on February 1, the company's profit improvement for 1982/83 was achieved on lower turnover of £26.06m against £27.77m. A geographical analysis of this, published in the annual report, shows (£000s company) of the extraordical control of the extraordical contr

COMPANY ANNOUNCEMENT

of R34,440,000 for the company: -

May 29 to June 26 1987

March 2 1984

A.B.N. Bank Allied Irish Bank

Amro Bank
Heury Ansbacher
Armeo Trust Ltd.
Associates Cap. Corp.
Banco de Bilbao
Bank Hapozlim BM ...

Bank Happalim BM 9
Bank of Ireland 9
Bank of Cyprus 9
Bank of Cyprus 9
Bank of Scotland 9
Banque Belge Ltd 9
Banque du Rhons 10
Barclays Bank 9
Beneficial Trust Ltd 10
Bremar Holdings Ltd 9
Brit Bank of Mid, East 9
CL Bank Nederland 9
CL Bank Nederland 9
Canada Perm't Trust 10

Canada Perm't Trust... 10 % Castle Court Trust Ltd. 91% Cayzer Itd. 9 % Cedar Holdings 9 %

E Charterhouse Japhet... 9 %

Chetilarions 101% Citibank Savings 1101% Ciydesdale Bank 9%

First Nat. Fin. Corp... 11 %
First Nat. Secs. Ltd... 10 %
Robert Fraser 10 %
Grindlay Bank 4 9 %
Edunness Mahon 9 %
Hambros Bank 9 %

Second conversion period: May 27 to June 24 1988

EAST RAND GOLD AND URANIUM COMPANY LIMITED

(Incorporated in the Republic of South Africa)

UNSECURED CONVERTIBLE DEBENTURES 1988/1991 Further to the circular to members dated February 9 1984, members are advised that the special end ordinary resolutions proposed at the general meeting of the company held on March 2 1984 were duly passed.

Accordingly, members registered at the close of business on

March 9 1984 (i.e. the record date previously specified) will be offered the right to subscribe for a total of 2,870,000 15.5 per cent unsecured convertible debentures 1988/1991 of R12 each at par (South African currency) in the proportion of 7 such debentures for every 100 shares held at the record date. This will raise a total

The debentures will be redeemed at par by drawings in four squal instalments of R8.610,000 each, on the last Friday is December in each of the years 1988 to 1991 inclosive. Debenture holders may however, elect to convert their debentures into shares of the company at a price of 1,200 cents per share in each of the conversion periods set for 1987 and 1988, as follows:

A circular will be posted to members from the Johannesburg and United Kingdom offices of the company on March 16 1984 containing full details of the offer and the conditions attaching to the debestures, together with a report by the company's technique advisers. The circular will be accompanied by renounceable letters of allocation in respect of members' rights arising from their holdings in the company on the record date.

The head office and United Kingdom transfer registers and registers of members of the company will be closed from March 10, to 16 1984 for the purposes of the offer.

Applications have been made to The Johannesburg Stock Exchange and The Stock Exchange in London for listings of the debentures to be offered. It is expected that details of the listings will be advertised in the Press on March 8 1984.

BASE LENDING RATES

A maximum of 50 per cent of

debentures held Belence of debentures outstanding

Heritable & Gen. Trust 9 %

Lloyds Bank 9
Lloyds Bank 9
Mallinhall Limited 9
Edward Manson & Co. 10
Maghraj and Sons Ltd. 9
Midland Bank 9

Morgan Grenfell

National Bk. of Kuwait
Netional Girobank

National Westminster

Westpac Banking Corp. 9 %
Whiteaway Laidlaw 91%
Williams & Glyn's 9 %
Wintrust Secs. Ltd. 9 %
Yorkshire Bank 9 %

Members of the Accepting Houses

Committee.

7-day deposits 5.5%, 1-month 8%. Fixed rata 12 months £2.500 5% £25,000, 12 months 9.5%.

7-day deposits on aums of: under £10,000 5%, £10,000 up to 6 65%, £50,000 and over 72%.

‡ Cell deposits £1,000 and over £2%.

‡ 21-day deposits over £1,000 652%.

§ 0emasd deposits 552%.

Marigage base rate.

PROPOSED RIGHTS OFFER OF 2,870,000 15.5 PER CENT

BOARD MEETINGS

Finals:
Antolegosta Mar 8
Beasona Crispa Mar B

which cootinne to be under
threat of closure because of the
current economic situation.
The anditors say they have
been unable to verify provisions,
totalling £165,000 before tax,
made by the directors as part
of the extraordinary items
charged in the profit and loss
account to cover the estimated
costs of further rationalisation
which it is considered will take which it is considered will take

(£3.290), the Far East £1.489 (£1.672) and other areas £627 (£740).

In their statement, the auditors draw attention to accounting policies used. These indicate that the break up value concept that the break up value concept that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets were that the break up raise indicate and net current assets to the financial ments up from £9.82m to \$1.000 to \$1.0 statements of certain activities £11.77m.

87,818 125 | 24/7 | 8878 | 88 | 88 | Aslan Oev. 9k. 10 42 Ln. 6008 | 26/8 | 46 | 97,072 | 188 | 1/7 | 3716 | 284 | 87kxton Est.11 pc 1st Mort. Beb. 8086 | 27/8 | 49 | 99.15 | 225 | 2318 | 884 | 244 | 187 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147

FIXED INTEREST STOCKS

"RIGHTS" OFFERS price E date

e5e Hil Hil F.P. Nil 137 Hil 155e Nil 165 Hil 165 F.P.

Renusciation data usually test day for dealing from of atomp duty. 8 Figure based on prospectus astimates. 6 Dividend mus peld or payable on part capital; cover based on dividend on full capital, g Assumed dividend on yield. 8 Forecast dividend cover based on gravious year's samings. F Dividen and yield based on prospectus or other official astimates for 1984. H Dividen and yield based on prospectus or other official astimates for 1983-84. Q Grass p Pance unless otherwise indicated. 1 Issued by tender. I Official to holde of ordinary shares as a "rights." "Issued by way of capitalisation. 55 R Introduced. 11 Issued in consection with reorganization merger or info-ove MAIntended. 11 Issued in Consection with reorganization merger or info-ove MAIntended. 15 Placing price. 11 Dificial Londoo Listing. I No par value.

PENDING DIVIDENDS

PENL	PING	DIVIDEN) 5
Date	Anseusce- ment lest year	Date	Announce- ment last year
AdwestApr 15	Interim 2.1	Lex ServiceMar 25 *Lloyds BankMar 8	Final 5.0 Final 14.66
Angio American	Final 440c	Lloyds BankMar B	Finel 14.66
Inv TrustApr 14 EquipMer 21	Irranim 0.35	LaameMar 13	Final 6.5
ASS Brit Ports Apr 14	Ficel dua	DOTTOL WIRT 20	Finel 3.0
Automotive		*Luces IndsMar 29	Interim 2.6
ProductsApr 15	Final 15.0	*Midland Back Mer 8 Mills and	Finel 17.5
Bot IndsApr 7 BCAMar 17 *BICCMar 21	Interim 2.0	Allen,Mar 14	Interim 4.6
*BICC Mar 21	Final 7 Os	MotBall	
BPMar 17		NEIApr 14	Final 4.0 Final 3.25
SPCCApr e	Finel 14.0 Finel 5.01 Finel 5.25	NEIApr 12	Finel 18.4
BIR ALLEN MOT TO	Final 5,25	NewarthillApr 14	Firel 9.e
*Bercleys BekMar 30	Finel 3.6 Finel 11.0	News IntiMar 5	Interim 3.499
Barratt	741101 11.0	TransportMar 23	Final 2.35
DavelptaMer 13	Interim 4.2	Paterson	
Rell IA	Interim 1.5 Interim 2.0	ZochonisMar 22	Interim 1,33 Interim 2,25
*Bibby (J.)Mar 20	Final 5.15	- Filipes	IIIII ALED
*BelanMar 15 Bell A.)Mar 23 *Bibby (J.)Mar 20 Blatkwood		LampsMar B	Final due
HodgeApr 15 Boddingtons'	Finel nil	Phoenix AssurApr 6	Finel 10.2
BrewsMac 10	Final 2.25	Pritchard	_
McConnell Mar 29	Bool 2 25	SorvicesMar 24 *Provident	Finel 2.1
McConnellMar 29 BowsterMar 29	Final 2.25 Finel 3.5	FinancialMar 8	Final 5.58
*Brent Chama IntlMar 27	D-1-0	*PrudentialMer 28 Queena Most	Final 10.0
Gritish	Final 1.9	HousesApr 11	Final 0.605
Asmeson Mar 20	Final 5.2	Ransomes Sima	A CONTRACTOR
*British VitaMer 5 *BritoilMor 23 Brooks Bond Mar 15	Final 5.2 Final 2.7 Final 3.75 Laterim 1.25	and JeffortesMar 5	Final 8.86
Brooks Bond Mar 15	laterim 1.25	ColmenMar 29	Finel 8.5
Brown Boveri KentApr 14		Reckits and ColmanMar 29 Reed Austia Apr 14 "RentokiiMar 20	Finel 3.5 Finel 2.05
BryantApr 11	Final nil	RentokiiMar 20	rings 2.05
"BunzlApr 2	Finel 4.5 Final 7.5	Tinto-ZincAgr 14	Final 10.5
Burton Apr 2	Interior 3.1	RockwareApr 13 Rewntreo	Finat nil
-Chara.		MackimtoshMar 18	Finel 5.9
SchweppesMar 6	Finel 3.5	Royal Ouich PetroleumMar 15	Finel Pl 4.65
RoadstoneMar 15	Final 3.56	RuberoldApr e	Finel 4.0
Coatsa BrosApr 8 *Cons Gold	Final 2.42	Rugby Portland	
Fields Mac 8	Interim 6 sea	CemontApr 11	Fiaol 2.9
Crode IntlApr 7	Finel dua	Metro ProAer 8	Interim 1.5
De BeersMar 28	laterim 8.5	BedgwickMar 10 Canier EngApr B	Finel 4.5 Finel 0.75
*DeltsMar 27	Finel 25c Finel 1.58	*Chell ElgApr B	Finel U.75
Eastern		TransportMor 15	Final 12.6
ProduceMar 14 Exco latiMar 29	Finel 3.5 Finel 3.t	Sime DartyMer 3 Slough EstsMer 23	Interim 4 sen Final 2.075
Expanse IntlAgr 12	Finel 2.5	Smith and	
Exco letiMer 29 Expamet IndAgr 12 FisoneMer 5 FraemenaMer 29	Final 2.5 Final 7.6 Final 2.25	NephewMar 22 Bmiths ladaApr 12	Finel 2.8 Interim 4.0
GOIMIN	Fine1 2.23	Standard	Interno 4.0
MiningMar 6	Fieal 120g	Chartered Bk Mar 22	Final 17.8
Author Apr 12	Final 4.6	Sun Alliance Apr B	Final 3.0 Final 29.5
GlaxoApr 11	interim 2.75	SuperdrugMar 29	Final due Final 5.0
GRE Mar 14	Final 12.5	Taylor 15	Final 5.0
GiaxoApr 11 *GKHMar 14 GREMar 29 GlynwadMar 28	Final 4.9	WoodrowApr 14	Finel 14.6
Harris QueenswayMar 25	Final 4.0	*Trae sport	E-120
*Hopworth		TricentrolMar 16	Finel 3.0 Finel 5.B
CommicMer 21 Hiegu & Hilf Apr 13	Final 3.35 Finel 5.75	TricentrolMer 24 "Turner end NewellMer 21	
*HK Bhanghal	FINEN 5.75		Final nil Final 9.5
BenkMar 13	Finel HK\$0.37	*UltrisnorMar 14 *UnileverMar B	Finel 18.87
HooverFeb 17 Horizos TravelMar 17	Final oil	*UniteverMar B "Unitever NVMar B "Utd BlacuitsMar 16	Final FI 14.58 Final 3.55
TravelMar 17	Final 2.B	*United	

SHARE STAKES

Standard Life Assurance Comsincy has acquired a 10.73 per
shed — Robt Fleming and Co
tent shareholding in Alexanders has bought for an associate
Discount, the discount house, 150,000 ordinary.

Charles Baynes—Mr William
over bid from Mercantile House.
Charles Baynes—Mr William
Charles Baynes—Mr A. F.
Elswick-Hopper—Mr A. F.
Charles Baynes—Mr Mr J. A.
F.
Charles Baynes—Mr William
Charles Baynes—Mr Mr J. A.
F.
Charles Baynes—Mr William
Charles Standard Life Assurance Com-

Marston Thompson and Evershed — Robt Fleming and Co further 15,000 shares bringing is interested in a further has bought for an associate its holding to 195,000 (6.21 per 506,250 ordinary and his total 150,000 ordinary.

Trust—L. N. Tucker, a director, is interested in a further 506,250 ordinary and his total interests are 2.54m ordinary shares and 800 preference.

Midland Industries—Mrs D. B. Wehh, wife of Major M. J. Wehb, a non-executive director, has sold a total of 80,000 shares. In addition, Majer Webb's company—Astwood (Finance & Services) has sold 10,000 shares.

—Astwood (Finance & Services) has sold 10,000 shares.

London Merchant Securities—
F. G. Nash, a director, has sold 11,000 ordinary shares at 67p and now helds 121,044 ordinary and 68,016 deferred ordinary shares.

The Second Alliance Trust—
The Standard Life Assurance Company has seld 135,000 ordinary stock units and 17,145 1.141m ordinary stock units (5.85 per ordinary stock units (5.95 per

LADBROKE INDEX ** Based oo KT Index 834-838 (+9) Tel: 01-493 5261

Harvey and Thompson Property Security Investment

United Kingdom and the Republic of Ireland.



Australian Industry Development Corporation

(A statutory corporation, wholly owned and guaranteed by the Commonwealth of Australia)

A\$42,000,000 121/8% Notes due 1990

Payment of principal and interest guaranteed by the Commonwealth of Australia

Issue Price 100% plus Accrued Interest

The following have agreed to subscribe or procure subscribers for the above Notes:

Orion Royal Bank Limited

Algemene Bank Nederland N.V. Amro International Limited Bank of Tokyo International Limited Banque Bruxelles Lambert S.A. Banque Générale du Luxembourg S.A. Banque Nationale de Paris Banque Paribas Commerzbank Aktiengesellschaft

Credit Suisse First Boston Limited

Deutsche Bank Aktiengesellschaft

Daiwa Europe Limited

Girozentrale und Bank der österreichischen Sparkassen Aktiengesellschaft Hambros Bank Limited Kredietbank International Group Samuel Montagu & Co. Limited Morgan Stanley International J. Henry Schroder Wagg & Co. Limited Société Générale de Banque S.A. S. G. Warburg & Co. Ltd. Wood Gundy Limited

The 42,000 Notes of A\$1,000 each have been admitted to the Official List by the Council of The Stock Exchange, subject to the issue of the temporary global Note. Interest on the Notes will accrue from 15th February, 1984 and shall be payable annually in arrears on 15th February in each year.

Particulars of the Notes and the Issuer are available in the Extel Statistical Service and may be obtained during usual business hours on any weekday (Sanurdays excepted) up to and including 19th March, 1984 from:

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Orion Royal Bank Limited. 1 London Wall, London EC2Y 5JX

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FINANCIAL TIMES STOCK INDICES

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Today's Rates 10½%-11%

3i Term Deposits

Deposits of £1,0 gross, half-year	00-LS	0.000	depos	ted for	fixed	not lat	of 3-1 er tha	10 year n 9.3	s. Interest paid .84 are fixed
Terms (years)	3	4	5	6	7	8	9	10	20
Interest %	1012	1034	10 %	11	71	11	11	111	

Granville & Co. Limited Member of NASDIM

Over-the-Counter Market

Wolselay-Hughna...Mar 12 Interim 6.08

n Board meeting latimated. † Rights issue aince made. ‡ Tax Ires. § 5crip issue alace made. † Forecast.

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£0000°	Company	Price	es week	div.(p) %	Actual	taxed
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_	Ase. Brit. Ind. CULS	138	_	10.0	7.2		
4,110	Airsprung · Group	71	-1	5.1	B.e	20.2	20.3
700	Armitage & Rhedes	28	+1	_			
39.896	Bardon Hill	320		7.2	2.3	13.1	26.6
3,190	Bray Technologies	58	_	2.7	4.7	10.5	11.4
2.079	CCL Ordinary	197	_	5.0	2.5	4.5	6.2
	CCL 11pc Conv. Prel	147	=	15.7	16.7	4.3	U.2
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1,628	Cindico Group	103					_
4.690	Data di Garage			17.e	17.e		
	Daborah Services	60	+2	6.0	10 e	32 1	52 Z
13,120	Frank Hersell	202	+3		_	8.5	13.9
_	Frank Hersell Pr Drd 87	188	+2	8.7	4.6	7.B	13.0
4,190	Fmderick Parker	29		4.2	14.B		_
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1,950	lad. Precision Castings	48	_	7.2	15.2	13.2	15.6

20.3 26.6 11.4 6.2 52 2 13.9 13.0 led. Preclaice Castings 48
Isis Ceav. Pref. 340
ackaen Group 17B
James Burreugh 240
Minheuse Holding N.V. 343
Robert Jankina 107
Scruttosa "A" 80
Tordey & Carlials 64
Trevias Holdings 435
Unilock Holdings 18
Walter Alexander 87
W. 8. Yeates 238 7.2 15.2 13.2 17.1 5.0 — 4.5 2.8 \$2 11.4 4B 13.3 4.0 1.2 25.8 20.0 18.7 12.4 5.7 8.5 10.0 2.9 4.5 — 8.9 1.8 19.6 1.6 7.8 7.6 17.1 7.2 3.7 33,124 9,281 1,091 3,000 1,562 1,972 2,826 11,092 5,554

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totRec inclinit interior inter Martin Shaying Martin Maying MacOrd M 如果也就想得到我就是我们的时间,我们也是没有我们的,我们是我们的我们的我们的我们的,我们们就是我们的我们的,我们也是我们的,我们们也是这种人的,我们们也是我们的 JATE Jewer Jewer Jewer Jewer Jewer Jer Gunder Jewer Je 有用的生物的 电影或时代与电视电话的工程与成为电话电影性影响生态化感情感光度大学和自己是表现的人类表现的现在分词 医多种性性炎 计 ACHACHKonser.
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Konser. | Company | Comp สิตส์ขันที่ขึ้นการสิกอยิกนส์ก็ที่ก็คลอยชนสีการสักวรที่ก็25 ที่ก็จับมีลักว์ก็ 11 数分的口名处 中间是自然,这种心脏,感也就是有多种的人,可以不是是是一种,我们是是一种,我们也是一种,我们也是一种,我们是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也可以是一种,我们也是一种,我们也可以是一种,我们也可以是一种,我们也是一种,我们也可以是一种,我们就是一种,我们就是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们也是一种,我们就是一种,我们也是 Netriti Netri Netri Netriti Netriti Netri

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54: 100x High 56: 67; 114; 250 197; 168 51; 250 57; 20 169; 168 51; 250 57; 20 169; 20 Close Beat St. 19% 55% 27 31% 57 16°2 26 12°3 62°3 ्राक्षणा क्षा प्रतिक्षेत्र प्रतिक्षेत्र क्षेत्र क्षेत्र क्षेत्र क्षेत्र क्षेत्र क्षेत्र क्षेत्र क्षेत्र क्षेत्र स्थापन WICOR
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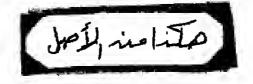
Continued on Page 22

Sales figures are unofficial. Yearly highs and lows reflect the previous 52 weeks plus the current week, but not the latest trading day. Where 9 split or stock dividend amounting to 25 per cant or more has been paid, the year's high-low range and dividend are shown for the new stock only. Unless otherwise noted, rates of dividends are annual disbursements based on the latest declaration.

3-dividend also extra(s). b-annual rate of dividend plus stock dividend, c-dipuldating dividend, cid-called d-new yearty low, e-dividend declared or paid in preceding 12 months, g-dividend declared after split-up or stock dividend, i-dividend paid his year, omitted, deterred, or no action taken at latest dividend meeting, k-dividend declared or paid the year, an accumulative issue with dividends in arrears. n-new issue at the past 52 weeks. The high-low range begins with the start of trading, nd-next day delivery P/E-price-earnings ratio. r-dividend declared or paid in preceding 12 months, plus stock dividend, s-stock split. Dividends begins with date of split, sis-cales t-dividend paid in stock in preceding 12 months, estimated cash value on ex-dividend or ex-distribution date. u-new yearly high, v-trading helted, vi-in bankruptcy Act, or securities assumed by such companies, wd-when distributed, wi-when issued, ww-with warrants. x-ex-dividend or ex-rights, sids-sid-oil-distribution, xw-without warrants. x-ex-dividend or ex-rights, sids-sids-in full.

WORLD STOCK MARKETS

OVER-THE-COUNTER Nasdaq National Market closing prices	Closing prices March 2 GANADA	HONG KONG
#### ### ### ### ### ### ### ### ### #	Closing prices March 2 1283-84 Mar. 2 1983/84 F.Mar. 2 Price Record 1964 1974 1983/84 F.Mar. 2 Price Record 1974 1975 1974 1975 1974 1975	1985,84 Mar. 2
Bellet a G. 141, 134, 144, 144, 158, 168, 144, 144, 148, 158, 158, 158, 158, 158, 158, 158, 15	Second 20	1,400 840 Marul 1,190 2,010 1,120 ME1 1,850 728 615 Mrta Elac Works 683 780 498 Mrbish Bank 780 573 500 Mrish Corp 514 487 345 Mrish Elect 598 525 441 Mrish Elect 598 525 200 MH 1 25 11 25 55 55 55 50 Mrish Corp 514 525 200 MH 1 25 11 25 55 55 55 55 55 55 55 55 55 55 55 55
12 Manth high Low Stock Bir. Yel. E 190s High Low Doote Close High Low Stock Bir. Yel. E 190s High Low Doote Close Continued from Page 21 12 Manth high Low Stock Bir. Yel. E 190s High Low Doote Close High Low Doote Close From Page 21 13 Sangareh 35 32 Sangareh 36 32 Sangareh 36 32 Sangareh 37 Sangareh 38 Sangareh 39 Sangareh 30 Sang	222 206 Credit stait Pfd. 215 570 181 Goesser. 327 410 352 interuntell. 403 217 220 14. According to the stait of the stai	187 117 Tokyo Gas. 177 727 413 79kyo Sanyo. 714 990 790 Tokyo Style. 846 348 251 Tokyo Corp. 5358 725 495 Toppan Print. 703 444 352 Toray. 598 443 277 Toshiba Elect. 599 595 415 TOYO. 652 765 455 Toyo Selkan. 715 1,500 252 Toyota Motor 1,520 3,400 1,500 Volor. 8,280 3,400 1,500 Volor. 8,280 851 450 Yamaha. 782 1,270 1,360 Yamaha. 782 851 513 Yamanakhi 520 851 613 Yamanakhi 782 276 220 Yasufa Fire 287 516 408 Yokogawa Bdge 420 1983.84 Mar. 2 Price High Low Rand 5,23 2,35 Aberson 2.8 10,20 7,00 AE & Cl. 8 11,31 82 Anglo Am Corp. 25,3 11,41 11, Barclaye Bank. 19,95 14.4 11, Barclaye Bank. 19,95 14.5 48 Buffele 755
12 14 27 18 27 18 28 28 28 28 28 28 28	High Low Fra. A48 990 ARSED 1,448 1983/4 Mar, 8 Price A20 2,080 Selacet 5.200 High Low S.14 1983/4 Mar, 8 Price A20 2,080 Selacet 5.200 Selacet	6.0 5.00 Currio Finance 15.5 11.7 6.40 De Bears 16.5 49.75 51.00 De Bears 16.5 70 87.25 F8 Oeduld 64.1 24.4 20.4 Good Fleids 8.4 51 6.55 4.20 Highwold Steel 5.9 15.76 10.3 Nedbank 15.5 29 18 0K Bazaars 18.13 25.6 18.2 Rombrand 25.0 16.6 5.85 Bennies 15.25 16.7 7.8 24.7 Sage Hidge 7.5 25.26 18.2 Rombrand 25.0 16.6 6.85 Bennies 15.25 16.7 8.8 2.7 Tongsat Huletts 17.5 25.26 18.2 Smith (0.64 23.5 15.0 8.2 Tongsat Huletts 11.3 6.90 3.95 Uniseo 263 334 255 Beo Gentral 333 324 255 Beo Gentral 333 325 250 Beo Settorio 205 248 200 Beo Extorio 205 248 200 Beo Extorio 205 248 200 Beo Extorio 205 256 208 Beo Sentander 296 377 206 Seo Vizeays 577 169 105 Oragados 147 67.7 39 Hidrole 247 67.7 39 Hidrole 258.2 113 59 Petroleos 112.3 -93 60.9 Tatefonics 30.6



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WORLD STOCK MARKETS

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INTERNATIONAL GUIDE TO THE ARTS

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	NEW	YOR	K	Indices						
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ı	<u> </u>	Mar. 2	Mar.	Feb. 29	Feb. 28	Feb. 27	, High	LOW	High	Lov
	♦ industr'is	1171,48	1350,44	1154.63	1107.7	4 1179.98	1287.20	1027,04	1287,20 (28/11/6)	41.5
ı	H me Bnds	70,24	70;16	70.28	70,2	1 70.45	77.84	60,86		
	Transport									
	Utilities		126.00	127.79	126,6	1: 126,40	(01/18)	(8/1/8 <u>3)</u>	, 105.52; 29/4/89	38/4#
ł	TradingVol		82,910	92,910	B1.01	53,140	- ,	. . – .	ļ . -	-
I	+ Day's high	1181.0	1 (1166	1.46) lot	w 116	3_81 (114	i6,25)			
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ľ	1	Mar.	Mar.	Feb. 20	Feb. 28	Feb. 27	Hleh	Low	High	LOV
1	industris.	179.61	178,58	177,88	177,1	5 160,88	194,84	154,80	194,84	3,62
l	Comp's'te	- 158.24	168, 15	167.08	168,82	159,80	172,65	128.64	(10:10:68 172,56 (10:10:53	4.4
•	tndustri	로 데V. 너	ald %	Feb.	29	Feb. 22	Feb.	15 Ye	ar age :	appro
7	·		-	4,0	1 1	4,08	4.	03	4,	22
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ŧ		. · · · ·					Pies	a and E	olle.	

4,22 11.89 10,30 N.Y.S.E. ALL COMMON Mar. Mar. Feb. Feb. High Low e1.67 01.07/90,44 90,24 99,63 80,e2 MONTREAL

451,42 429,52 429,90 424,98 469,92 (26,9) 351,10 (4,1) e12,21 e18,94 e11,16 481,41 441,29 (26,0) 325,15 (e)1,0 TORONTO Composite 2425.1 2418.5 2419.8 2485.0: 2538.2 (25/8) 1549.8 (4/1.5 NEW YORK ACTIVE STOCKS | Siocka Closing | Ford Moter | 1,141,600 | 381,2 | 1,141,600 | 381,2 | 381,2 | 1,141,600 | 381,2 | 381,2 | 1,058,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,400 | 315,40

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Since Complin't	AUSTRALIA Ali Ord. (1/1/88)	: 790 Z	793.1	777.6	149.0	787,9 (9/1:04)	487.8 (4/1/88)
High Low	Metals & Minis, (1/1:00)	499,3	498.9	588.5	021,9	B14,2 :5:81	411,5 (4/1/68)
1287.20 41.25 (28/11/08(2)7/82)	AUSTRIA Gredit Aiktien (2/1/52)	i 55,28	55,26	55,35	56.43	18.8 /5/5)	' 48.58 (15/2/65)
e12.65 12,32 (9/1/44) (5/7/32) 163.52; 10.6	SELGIUM Belgian SE (51/12/65)	140,41	140,15	140.40	141,55	140,25 (1/2/84)	100,58 4/ 87
29/4/89 (88/4/42)	DENMARK Copenhagen SE (5/1/88)	158,6	191.86	194,34	198,05	225,21 (20;1:84)	. 100,00 (\$/1/\$5)
er ago laporex	FRANCE. GAC General (\$1/12/82) Ind Yandance (38,12 \$5)	163.4 105.4				175,1 (25/1/84) 114,7 (25/1/84)	95,1 (3:1/85) 98,4 (3/1/84)
4,86	GERMANY FAZ-Aktien (31/12/58) Commerzbank (1/12/53)	851.74 1034.4	350.61 1650.0	348,40 1020.0	\$55,84 1028.5	379,84 (2:2;84 ₁ 1096,5 :2/2/64 ₁	251,89 (25:1:83) 727.5 (25:1:83)
SinceComitt'n	HONG KONG Hano Seng Bankiš1,7/64:	1079.63	1061.40	1069,28	1041.55	1134,12 (6/2/64)	690,06 (4 10)
194.84 5.62 10:10:88 (30:9:82) 172.56 4.48 10:10:83 (1:6:82)	ITALY Banee Comm Ital. (197?)	. 221,97	210,58	219,64	280,90	220,57 (1,2,84)	160,45 (10/1/83)
4,22	JAPAN** Nikkel-Cow (18:5/49) Tokyo SE New (4/1/68)						7803,18 (25/1)85/ 514,51 [25/1)85/
11.89 10.3e	NETHERLANOS AHP-CBS General (1970) AHP-CBS Indust (1910)	191,6	106.4 121.9	160.3 161.5	160,4 131.1	118.9 1/2/84 141,2 1:2:54	100.1 (4/1/85) 05.5 (4)1/83)
lis Mar. 1 Feb. 29	NORWAY Osto SE (4:1 85)	250,83	247,65	245.90	249.01	250,63 (5:5:84)	89,01 (4/1/83)
1,090 1,087 962 850 576 669	SINGAPORE Straits Times (1956)	1021,60	1018,03	1817,83	1023,69	1071.91 (8/2:84)	712,29 (5/1:83)
361 399 12 16 56 40	SOUTH AFRICA Gold (1859) Industrial (1856)	= '	10 I5,\$ 590,0	10 IS.B 991, J	1031.4 394.3	1089,\$:1:2:05; 1000,4 :B;1;84;	661,4 : 1/111 704.0 (5/1 65:
44		—-					
Low	SPAIN Madrid SE (50, 12:63)	119,62	110.10	111.11	116.42	118,62 (5:3:84)	100,00 (30/12/88)
351,10 14:1:551 325,15 16:1/851	SWEDEH Jacobson & P. (1/1/58)	1528.14	1501,72	1463,72	1504,95	1594,5 (\$.2.84)	896,18 (\$;1:83)
1549,8 (4/1:88)	SWITZERLANO SwissBankC pn,181/12/881	667,9	381,1	366,2	370,0	388,1 (\$.1 84)	294,4 /4:1:88)
Chango Closine on	WORLD Capital Intl. (1.1-10)	101,90	_ ;	101.5	181_7)	101,2 /20 1.84,	154,3 (8:1.0\$)

**Saturday February 25: Japan Nikkel Opy 10,048 05. TSE 778 07 Base values of all Indices are 000 except Australia All Ordinary and a 500, NYSE All Common—50: Standard and Poors—10: and Teronto—1.0 less named based on 1975. I Excluding bonds. 2 400 ladustriats. 5 00 ladustriats.

OVER-THE-COUNTER Nasdaq National Market

Shock Sales High Low Last Chang S	Stock Sales (Hinds			Sales High Low Last Ci (Hinds)	Sinck	Sales High Low Last Ching (Hinds)
Tonium Hoth rage 22	TrakAu 121 TWatEx 98	14 14 14	United a	90 43 ₆ 45 ₉ 45 ₈ 383 103 ₂ 103 ₂ 103 ₂	Wavik s	387 102 el 104 +4 0 144 137 140 +4
	TriadBy 1190				1 WnCas5 284	572 444 44 444 140 83 85 85 +4
T-T	Trueto 36 121 TBkGas 21	294 284 29 +4 254 254 264 +4	tirgeC s	77 54 2 2	WnDigit Wettra 80	140 B3 85 85 +14 433 17 1B3 17
	TuckOr 18	8 8 8		V-V	West	2712 34 34 312 +1
	TwnCty 87	512 414 5 +14	W.		J ₂ Widcom	206 103 94 912 -4
Tenox 3 613 505 494 504 +4			VLSI	629 144 134 134	William 1.50	299 30 294 294 -4
Tendera 5113 542 333 331 -3 Tando s 3290 164 154 16 +1 U		U-U	ValFSL		+1 WHAL S	219 11 1042 1042
	UTL-4 148		ValNer 1.16 (53 23% 23% 23% 514 32% 32 32%	WmsSh	17 1112 1114 1112 +14
	Utrsy ,05e 149 Ungmm 1043	161 ₂ 19 16 -4 13 141 ₂ 14 141 ₂ +1 ₄	ValLina 30a : VanDus 40 :	7 14 14 14	+3 ₂ v ₁ WilsF WilsnH 20	2649 87 85 87 -1 187 1312 1314 1314 +1
TelPlu a 961 72 75 74	Uniú 93	15% 14% 14% -4		189 17, 11, 17,	Wordow a 57	320 Th Th Th -14
	UnPintrs .60 108	224 214 224 +12			- WinnEn	46 0 64 0 +14
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TeMd 245 124 12 124 +1 U	LIBColo 1 58	19% 19½ 19% + % 10 17% 10 + %		340 16% 16% 16kg	Ha WoodD 60	57 134 124 13
	UnEd5 2	81 ₄ 81 ₄ 81 ₄ 71 ₂ 87 ₂ 71 ₂ +1 ₄ 71 ₂ 7 71 ₂ +1 ₄		696 15 14 15 91 54 51 51 118 125 124 124	WoodL 5 120	131 444 44 444 +12 287 234 225 225 +15 7 104 10 10 +14
	UFnGrp 34 UGrdn .04e 41	72g 85g 77g +1g 72g 7 77g +1g	VideoCo	91 54 612 54 118 125 124 124	Writing s .56 Writer 10e	7 104 10 10 +4
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PUBLIC NOTICES

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SCOTTISH EQUITABLE LIFE ASSURANCE SOCIETY

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COMPANY NOTICES

INTERNATIONAL ISSUE PROCAN SOCIETE D'HYPO-THEOUE SCAN 35 MILLION 17.5% DUE 15 DECEMBER 1986 CHANGE OF CORPORATE NAME

We inform the bondholders that Procon Société d'Hypothèque has changed its corporate name to Société d'Hypothèque Banque Nationale".

The bonds will be listed at the Luxembourg Stock Exchange under the following designation: PROCAN SOCIETE d'HYPO-THEOUE (Act. Societé d'Hypothèque Banque Nationale)"-

This change of corporate name is made without any stamp on the bands nor exchange of bonds. The principal paying agent

SOCIETE GENERALE ALSACIENNE --DE BANQUE Luxembourg Branch

NIPPON MEAT PACKERS, INC. ACDRS)

The entersigned announces that the Annual Report was under Jaly 37.

1945. of Nipoos Meat Packers, inc. will be swilable to Lucemboure at Kretiethank S.A., Lucemboure and Anteres and Anteres

Amsterdam. 27th February 1684. AMSTERDAM DEPOSITARY COMPANY N.V.

BRITANNIA GROUP OF UNIT TRUSTS.
LIMITEO
BRITANNIA AMERICAN SPECIAL
SITUATIONS TRUST
MEETING OF UNITHOLDERS
HELO ON 22ad FSBRUARY, 1084 As the above moting of unitheless both to consider modernization amendments to the Trust Deed of the Trust, the voting was as follows.

Resolution Mo. 1.

FOR 99.4% of votes cast.

AGAINST 0.6% of votes cast.

AGAINST 2.6% of votes cast.

AGAINST 2.6% of votes cast.

Both Resolutions were therefore passad by the resoured majority by 73% of votes cast.

The Trust Deed amendments were effective from 25th February, 1984.

re from 29th February, 1900-

CONTRACTS & TENDERS

AIR-INDIA

NOTICE INVITING GLOBAL TENDERS

Controller of Stores & Purchases, Air-India, Santacruz, Bombay 400 029 India, invites sealed item-rate Tenders from manufacturers having sufficient experience for the following on a turnkey project basis.

Name of Work Supplying, Installing, Testing 9 mooths and Commissioning of Pallet/ from award Container storage and mechof contract) anised handling in our new Cargo Warehouse at Sahar Terminal-II Bombay.

Time Allowed Due Date

Tender containing schedule of quantities, specifications, general terms of contract, special conditions will be available from our following office:—

Regional Stores & Purchase Manager Building No. 896
Maintenance Area
London Heathrow Airport Hounslow, Middlesex. Telex 934393 Tel. 01-897 6311.

Only manufacturers with proven technical capability and experience of such jobs will be issued the tender documents. Offers with maximum indigenous (Indian) content will be

preferred.

Tender documents will be issued to the Agents in India only against letter of euthorisation from their principels. Each offer must be accompanied by refundable earnest money deposit of Rs. 50,000 in the form of bank draft drawn in favour of "AIR-INDIA" or equivalent in local currency to be paid at the office from where tender documents are collected. Offer should be valid for acceptance for a period of four months from the date of opening the tender.

Controller of Stores & Purchases, Air-India, reserves the right to reject any or all tenders, without assigning any mason CONTROLLER OF STORES & PURCHASES

Bombay 400 029

COMPANY NOTICES

NOTICE TO HOLDERS OF

MORAN ENERGY INTERNATIONAL N.V.

8% CONVERTIBLE SUBORDINATED DEBENTURES DUE 1995

8% CONVERTIBLE SUBORDINATED DEBENTURES DUE 1995

Moran Energy Inc., as Guarantor of the 8% Convertible Subordinated Debeotures Due 1995 of Moran Energy International N.V.,
hereby gives the following notice to accordance with the Indentureamong Moran Energy International N.V., Moran Energy Inc., as
Guarantor, and First City National Bank of Houston, as Trustee,
dated as of November 1, 1980, governing said debentures:

A special meeting of Moran Energy Inc. stockholders has been
talled for March 19, 1984, for the purpose of voting on a proposal of the Moran would be merged with and into Kaneb Services,
Inc., a Delaware Corporation. If approved by the requisite number

Inc. a Delaware Corporation. If approved by the requisite number of stockholders of both companies and If certain other conditions are satisfied, the marger is expected to become effective on or about March 20, 1984. Upon consummation of the merger each share of Moran common stock will be converted into 1.14 shares of Kaneb. common stock. Appropriate transmittal letters enabling Moran stockholders to exchange their share certificates will be mailed on or about March 20, 1984.

about March 20, 1984. In conjunction with consummation of the merger, Kaneb will assume all obligations of Moran Energy Inc. as guarantor, with respect to the debentures, and ahares of Kaneb common stock will then be issuable to holders of Moran Energy International N.Y. convertible debentures upon conversion at an adjusted conversion price of \$23,32 per share. MORAN ENERGY INC.

AUCTION

SETENAVE-ESTALEIROS NAVAIS DE SETUBAL, E.P.

announces the auction for sale of its Newbuilding S106 (steam turbine tanker), completed in its yard in August 1983, under the following conditions:

1. MAIN CHARACTERISTICS OF NEWBUILDING S106

CONDITIONS OF SALE

Some items — information under 6 — will be removed from Newbuilding \$106 before delivery to the successful bidder. Newbuilding \$106 will be sold without those items and delivered "as is, where is." 3. BASIS FOR BIDDING The reserve price at which bidding will commence is USS29,990,304.40 (twenty-nine million nine hundred and ninety thousand three hundred and four United States dollars and forty cents). All taxes, duties, stamps and fees levied by Portuguese or foreign authorities connected to the sale by auction are to be borne by the successful bidder.

PAYMENT Payment will be cash.

On closure of bidding the bidder to whom the vessel has been adjudicated will make a deposit of 10% of the reserve price (i.e. USS2,999,030.40 — two million nine hundred and ninety nine thousand, thirty United States dollars and forty cents) by means of a certified cheque, or assured by a bank guarantee given by a recognised first-class bank, in either case documents being made out to Setenave — Estaleiros Navais de Setubal, EP, Final adjudication and transfer of the property will take place on payment of the sum outstanding, which will be paid 30-45 days after the date of public auction, at a date, time and place to be indicated by Setenave to the purchaser with a minimum of ten days advance notice. In the case of failure by the bidder to meet punctually the conditions of payment Payment will be cash. by the bidder to meet punctually the conditions of payment of the sum outstanding, the deposit previously paid will be

DATE, TIME AND PLACE OF AUCTION

The auction will take place on 26th March 1984, beginning at 10 am, in the Auditorium of Setenave Training Centre in their yard at Mitrena, Setubal, Portugal. Proceedings will be presided over by a magistrate, former Judge of the "Supremo Tribunal Administrativo."

Should there be no bids within an hour of the opening of auction proceedings, the president will declare the same closed. TECHNICAL DATA

From the date of publication of this announcement up till the eve of auction, those interested may consult the technical documentation concerning the Newbullding under auction and

To this end prior contact ahould be made with Setenave as fallows:

Setenave-Estaleiros Navais de Setubal, EP To: Subject: Auction of Newbuilding \$106 By Letter: 2902 Setubal Codex, Portugal By Telex: 16171 SETNAY P

THE SUCCESSFUL BIDDER will be responsible for all tasks and dutles concerning the purchase which are not obligatory to be performed by Setenave. Setenave guarantees the purchaser its fullest co-operation in carrying out the same.

SETENAVE-ESTALEIROS NAVAIS DE SETUBAL, EP The Board of Directors

Setubal, Mitrena, 5th March, 1984

KIRSH TRADING GROUP

INTERIM REPORT FOR THE SIX MONTHS TO 31 DECEMBER 1983

CHECKERS STORES LTD

The consolidated results reflect only the results of the Checkers Stores Limited Group before the creation of Kirsh Trading

	Unaudited 6 months ended 31 December 1983 R000's	Unaudited 6 months ended 31 December 1982 R000's	Audited Year ended 30 June 1983 R000's
SALES (of communing operations)	715,267	589,677	1,191,710
Operating profit/(loss) including attributable earnings of associated			
companies	6,622	489	(6,451)
Interest paid	2,400	3,429	6,0 <u>75</u>
Income/(loss) before taxation	8,222	(2,940)	12,526)
Taxation	323	571	670
Income/(loss) after taxation	5,899	(3,511)	(13,3 96)
Interests oi outside shareholdere	7	15	14
	5,892	(3,526)	[13,410]
Preference dividends	3.413	1,223	2,286
EARNINGS/(LOSS) FOR ORDINARY			
SHAREHOLDERS	2,479	4 <u>,749</u>	(15,696)
Extraordinary profits (not included ebove)	63	1,694	8,240
Notes:			

Sales include the turnovers of associated companies trading as Checkera. Associate company turnovers in each of the reported periods are as follows:

— 6 months to December 1983 — R23,9 million

Interest paid for the 6 months ended December 1982 has been reduced by RSO1,000 to comply with the a policy adopted at June 1983, in terms of which the interest component of the carrying cost of land under det is included in land development costs.

Group borrowings at the end of the period amounted to R72 million (1982: R58 million) allocated as follows long and short term:

— Long term borrowings R2 million (1982: R24 million)

— Short term borrowings R70 million (1982: R34 million)

These borrowings are being mainly utilised to fund expenditure on property development.

S Capital commitments amounting to R82 million [1982: R6 million) have been authorised and contracted for, In the main these commitments are in respect of property development to be financed by short term borrowings. In the longer term certain properties will be sold.

6 The future minimum commitments on finance leases over fixtures, fittings and equipment as at 31 December 1983 amounted to R20 million.

1 The results for the period are regarded as satisfactory having regard to the difficult economic situation and the effects

3 It is expected that trading conditions will continue to be difficult throughout 1984, under the impact of inci-

PROFORMA SUMMARISED INCOME STATEMENT OF THE RECONSTRUCTED KIRSH TRADING GROUP LIMITED

The proforms unsudited results below reflect 6 months trading for Checkers Stores Limited, and 8 months for all other

Sales		R000's 1,615,001
Pre-taxed profits	•	25.011
Profit after tex Preference dividends and	·	21,243
allowance for the financing cost of new	acquisitions	4,651
Earnings for ordinary shareholders	•	18,392
Less ordinary dividends		4,608
		11,784
Earnings per share (undiluted) (cents)	•	34,90
Earnings per shara (fully diluted) (cents)		29.77
Dividends per ordinary share		10,00

'1 Sales include total sales of subsidiary and associated companies. 2 Dion Stores, Union Wine and Dee Bee Supermarket are associated companies and their results have been accounted for on an equity accounting basis.

3 The sernings of certain of the companies for the second half of the year are expected to be lower than for the first half. 4 Tax has been provided at the estimated average for the full financial period.

KIRSH TRADING GROUP LIMITED RECONSTRUCTED SHARE CAPITAL

Shareholders funds of the group (net of goodwill of R31 million) now total R212 million and the number of ordinary and convenible preference shares in issue is now:

Number of shares Ordinary shares of 50 cents each Compulsority convertible cumulative variable rate preference shares of 1 cent each

13,121,763 7 per cent compulsorily convertible cumulative greference shares of 1 cent each 7,358,178 66,561,489 JOHANNESBURG

17 FEBRUARY 1984

FOR AND ON BEHALF OF THE BOARD N. KIRSH Directors G. M. UTIAN

46,081,548

DECLARATION OF INTERIM ORDINARY DIVIDEND NO.83

NOTICE IS HEREBY GIVEN THAT an interim dividend of ten cents per shere has been declared by the Board of Directors payable on 23 March, 1984 to Ordinary Shareholders registered in the books of the Company at the close of business on 9.March 1984.

The dividend is declared in South African currency and dividends payable from the London Office will be paid in United Kingdom currency calculated at the rate of exchange ruling between Rand and Sterling on 18 March 1984.

Dividend cheques despatched from the London Office to persons resident in Great Britain or Northern Ireland will be subject to e deduction of United Kingdom Income Tax at rates 10 be arrived at after allowing for relief (if any) in respect of South The Company will, where applicable, deduct the Non-Resident Shareholders' Tax of 15% from dividends payable.

Dividend chaques will be posted on or after 23 March, 1984. JOHANNESBURG 6y order of the Board

17 FEBRUARY 1984

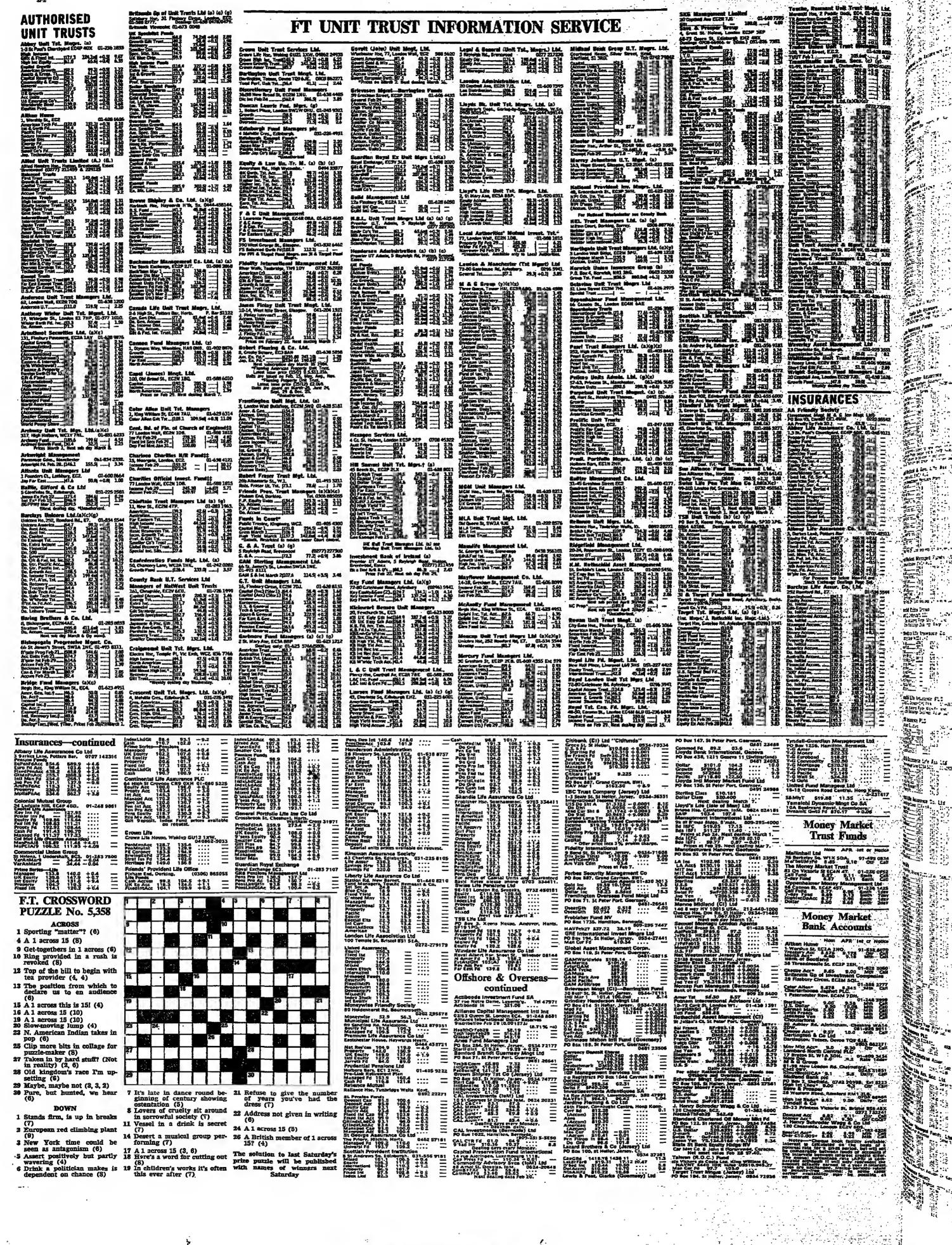
B. C. CRAGG Secretary Registered Office: 220 Commissioner Street, Johannesburg.

South African Transfer Secretaries: Central Registrars Limited, 154 Market Street, Johannesburg 2001, (P.D. Box 4844, Johannesburg 2000) London Transfer Secretaries: Ravensbourne Registration Services Limited, Bourne House 34 Beckenham Road

Kent BR3 4TU United Kingdom



A Kirsh group company



h. Filterise Life Aus. Co. Life.

Demonstration of the Control of **INSURANCE & OVERSEAS MANAGED FUNDS** | Reg. (U.3. Converted | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | Septential | 11/17|982 | Septential | 11/17| Loudon & Manachester Gg.

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Invest. Tel. Fd. Cap. 1312.4

Loudon & Manachester Gg.

Wheated Park, Capter PCS 105.

Invest. Tel. Fd. Cap. 1312.4

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Gilts Peas. Fd. Cap. 122.4

Loudon & Manachester Gg.

Gilts Peas. Fd. Cap. 122.6

Property Fund Cap. 1312.7

Property Fund Cap. 1315.7

Loudon & Manachester Gg.

Property Fund Cap. 1315.7

Loudon & Manachester Gg.

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22Aug 22Feb Fressury 11 top 1989 1 103 1 11 11 11 109 1052 In Sep Dc Merk	10.1 27.5 24.5 24.5 25.5	Son (MJ) 183 2811 4.5 3.8 3.5 9.1 May Nov. Wallet Sop	nr(S.) A' 158 1411 4.0 2.9 3.617.0 Mar. Nr. A' 500, 136est 272 193.0 3.5 3213.0 Mar. Nr. A' 5.9 1.0 - 3.9 - 3.9 - 3.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Nay Describer 187 18.9 57 18.7 6.9 9.1	ec. May Beatson Clark 191. 17.20 9.0. 2.57.6.77 6.8 eb. Ang. Beecker
14 Oc 14 July Teas 10-pc 1989 1825 7.111 10.52 10.54 EL.1S.0 F 1 Feb 1 Aug Exch 10c 1989 995 10.25 10.58 EL.1S.0 EL.1S.0 F 1 Lang 1 Feb 10 10c 1984 (100 100 100 100 100 100 100 100 100 10	Ingersoll-R \$2 921 10.2 \$2.60 5.7 January 0o. 1	rden St. 100 33 17.10 rdl.28 1.5 5.5 (149) Sept. Apr Wista Wood Wms. 156 1.212 0.10% - 7.4 6.5 9.5	Apr.	Aug Habit Precision 5p 59 7.3 0.5 3.31 1.2 (72) 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 May/Semak 10p
10. 17 10	Lackheed Corp'n 235 - - April Oct. 0.0. Lackheed Corp'n 235 - - April Oct. 0.0. Lackheed Corp'n 272 51.90 7.9 Lackheet Lack 272 27	ard Shet 10p 46 13.2 rd1.55 4.8 4.8 5.8	ELECTRICALS July Oct. July Oct.	Dec. Hawker 8 id 400 1411 19.8 32 35 9.9 M Apr H III & Smith 54 30.1 35 21 9.3 4.2 M Dec. Hopidisans 50p 118 31.0 14.52 27 55 7.5 M Mar Howard Machy. 109 281	2. May Bestobell
777 777	NYNEX S1 424 - \$6.00 - 10.0 June Oct. Lain	9 (John) 1/3 J.W 12.86 2.8 2.4 21.9 March JAsea /	Control 468 17.10 M.0 3.8 1.251.9 Just	Mar. Howard Machy. 169: 278 2-2 Mar. Howard Machy. 169: 278 2-2 - 433.3.7 Cot. Howards Group. 76 199: 3.5 1.9 6.6(9.7) Mar. Jackson-Mills Sp. 699: 272: 1.7 9 3.5 9 Jane Johnson & Florid 133: 228: 8	
770 274p Extraour 13-pc 1994 120 20.9 11.72 10.97 Fh.Aq.ag.m., p 22F 22Aug Exth. 12-pc 1994 120 20.9 11.72 10.97 Fh.Aq.ag.m., p 33-2 11.0 9.91 10.43 Jn.0c.J.A. 0 25.11	Pacific Telesis 90.10	rende (W.). 234 1411 195 3.4 5.7(5.6) latay Octobered (W.). 206 96 30.12 2.5 1.7 3.7 (0.6) latay Octobered (W.). 206 96 30.12 2.5 1.7 3.7 (0.6) latay Sees Audion and Palmi 1712 5.57 Nov. MayAutor's y F.J.C 47 31.10 (1.3) 4.9 5.0 9.0 July Jan. BICC: 0.00 Brick 185 5.9 (0.6) 2.6 1.8 6.518.4 Nov. 189838 (1.5)	Demais No. 473 — b.2.25 6.2 0.725.1 July rock 22p. 28 879 — — — Dec. rd Sec. 10p 137 310 re0.89 6.2 0.725.6 Jun. 50p	Feb.Lee (Arthur) 129 ₂ 17 3022 8.6 — 5.0 — 4.0 mb.Livrent 47 1411 0.1 — 0.3 — 4.0 mb.Livrent 50 — 48 127 1.0 3.0 3.6 mb. 18.0 mb.Livrent 75 — 24.2 23.11 1.30 2.6 7.4 6.8 mb.Livrent 6 5.0 mb.Livrent 75 — 24.2 23.11 1.30 2.6 7.4 6.8 mb.Livrent 76 5.0 mb.Livrent 76	2: May Grammer 20p. 163 118 5-9 1.9 5.214.8 m. Nov. Sevegreen 10p. 665; 152.12 2.0 2.0 3.7 4.314.6 m. Dec Bridged Pox 10p. 680; 11775 — — — — — — — — — — — — — — — — — —
15May 15M (reasory 12May 795# 1165 10.10 11.91 18.79 22.1d. 22.1d. 22.1d. 7reas. 14pc 76 1212 16.12 11.69 10.97 40 My Fb 44r/S	Remord 55	chwiel 222xd 27.2 9.0 0 5.8 0 March Oc. Callend	orpe 10p. 250 31.10 40.04 3.4 2.315.1 Septe Europe Hp. 29 17.10 44.9 8.8 24.1(7.9) 4.75 p. 26.2 14.11 1.35 1.1 7.3 (1.00) Jan. Gregorie, 50 155 17.10 61.4 11.5 1.336.4 June 10.0 1.5 1.346.4 June 10.0	Indian MS Intern. 10p 50 5.9 0.1 0.3 0.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	w Jensier r 2 Aben Sub 1 eA Incel in 2 (-) 1 -
22Jul 22Jul Treasmy 13-de 77th 1184, 1612 1131 20.74 MISD S 21Aug 22F Excheque 10 per 197 994 161 10.50 10.60 Main See Dec T 1Mar 1Stressny 8 due 1972tt 884 241 9.93 10.40 6 Main See Dec T	Southwestern Bell SI	bs (tob) 20	Grp 10p. 186 1710 rd25 3,4 2,021.2 4cr. de Grp. 35 478 B. Jan. ba: 0an Pt. 159 71,9% May ny's Hidgs. 9% 49.8% 1.5 9,9 6.4 Apr. 10c 124 Hill 0 0.8 6 June	Sept.MitchesSons.10p 46 1212 3.25 1.6(10.1) 7.7 Ab Nov.Molins. 142 17.10 7.9 2.4 7.9(6.1) Oct. Neepsend 15 19.9 0.1 1.0 Fe	b. Aug. Sorce Dean
10 174 - ELEO PROF. OCCUPANT 25 (4 - 18-7) 10.47 Mr.Je.S.D. [T 18 1 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Time inc. 51	Lingingers 17 782 — — — Dec July CASE (A)	20p 945 14.111 73.15 5.9 0.916.1 May Microsce 450 31.10 119.5 5.3 1.118.1 Sept. tronic 10p 150 30.1 71.76 2.8 1.729.4 Mar. tate 5p 254 12.12 5.26 5.3 1.924.0 Jan. decimalogy 115 -	Nov. Newman Tonks. 91 132 51 13 8.0124	bb Aup C. N. Ind's, 10p. 31 202 17 29 78 52 19 Dec 9CSR A51 296 521 1018 13 5214.8 is. July Causing (W.) 107 17:10 91.73 2.4 2.328.3 is. July Causing (W.) 107 17:10 91.73 2.4 2.328.3 is. July Causing (W.) 107 17:10 91.73 2.4 2.328.3 is. July Pl. 25 23 3.5 (M) 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5
Over Fifteen Years Mr.k.s.D. Wr.k.s.D. Wr.k.s.D.	VIJ.S. Steel ST 18'4 30.10 ST.00 3.8 Feb. Oct. Phoe U.S. West Inc 40'4 55.40 95. June Dec. Poot Oct. Poot Oct. Poot Oct. Poot Oct. Pool Oct. Poot Oct.	ntx Timber 118 3012 21.5 April Oct Dutes 105 April Oct Dutes 105 April Oct Dutes 105 April Oct Dutes 106 107	Jacz, 106 83 at 27.2 f 9.0 25 6.9 7.1 Apr. vi Inc 5c 77 — 1601, 5c 5.2 1, 1414.3 Apr. rs: 'A' 106 1.72 30.1 0.68 2.3 3.5 9.6 5ept. 16.0 10.0 56 19.9 2.15 1.8 5.5 1.2 1, July 1.0 1.0 1.0 2.9 12.12 40.7 — 3.4 — Jan	Aug Pratt (7)	Aptromistry Celeration 20p 23 118 d1.0 - 6.2 - 3.4 c
22M 22MsylTreas. 15pc 2000	Redail R	ul(Ellmres.). £102	7 56	May Restate 15 (6.8.). 92 15.8 1.75 9 2.7 0 100 1 100 100 100 100 100 100 100 10	A.J.M. PCNet Light HISS. 112 23 05% 258 47 12 2 2 1 05% 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21May 21MTressry122pc 03-05 122	\(\frac{\partial \text{WBow Valley8} \\ }{1956} \frac{15512}{27.30} \frac{150}{51.60} \rightarrow \frac{4.7}{4.7} \frac{\text{dots} \\ }{\text{oct.}} \text{data} \\ \text{WBreakmater Res} \\ \text{435} \\ \text{2012} \\ \text{\$2.08} \\ \$\text{\$\te	H (14/m) 348 17 10 + 17 5 3 2 3 2 4 4 1 - 12 12 12 12 12 12 12	_ i_ 10a 257 1011225 A 10 A _ 3#	May Rotork 10p	April - Constitute 1 (ed. 10) - 25
Undated J.Ap.Jy.O.	Can. P. Erd. II	ters 100 20 678 4 2 2 548 4 2 2 548 310 ft.1.0 2 3.3152 July Jan. Fidelit 140mes 92 10.1 19.5 2 15.0 19.5 2	0 500 694 12.12 15.5 4.9 1.1225 3 Aug. y 10p 144 28.11 13.0 6.6 3.0 Septer astic 10p 114 17.10 +1.75 3.3 2.2 050 Jan.		n. June Cope Atlanan 5p 98 2431 (2.5 3.9 3.77.49 as 0xt Copydex 10s 157 57 (2.5 64.7 2.114.1 March Peter 10s 157 57 (2.5 64.7 2.114.1 57 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.9 5.2 7.5 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.9 5.2 7.5 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.9 5.2 7.5 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.9 5.2 7.5 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.9 5.2 7.5 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.9 5.2 7.5 64.7 2.114.1 March Peter 10s 157 301 (2.5 2.5 2.7 5.5 2.7
1Ap 10ct 10cm, 31-pc 61 Aft 431-pl 21.2 8.05	Wimperial Dill 204 28.11 53.40 4.0 500 27 1000	lokings 10e 75 332 140.7 5.9 1.314.0 Recenter 4600mm (figure 1) 200 9.5 5.8 4.9 4.1 5.2 February Goring 1 2512.33: 5.1 4.8 4.3 February Goring 1 2311 6.5 1.0 6.0 70.8 Jan Aug Grosset aich bb 30. 45 31.00 143.0 1.3 9.5 (0.5) Newsonter 1 988 Dec 1 1 3 9.5 (0.5) Newsonter 1 988 Dec 1	in Warren 91 31.10 u.1.4 2.4 2.2 23.1 Jun. (Serr 10p 257 30.1 g5.0 6 2.6 6 Apr. 10th Comm. 57 May 200 Grow. 155 14 11 5.25 2.2 4 8 (176) Jun.	Apr. Stother & Phil. L. 158 18780	y Jan Creat (J.)
308ar 305ept Tr. 2pc '88 (297.1) 1025pd 24.8 3.57 4.97 SeDelfr Ju Se 25 July 00, 2pc '90 (333.9) 882 3.66 4.23 4.37 SeDelfr Ju Se 16 May 16 S 00, 2pc '90 (247.9) 1407ad 8.7 3.47 3.76	Royal Bir Can I 175 mt 2511 5200 6.6 Mar. Gct. Vilhoo Seasyam Co. CS1 275 14.2 ISSN 6 2.6 Apr. Oct. Ward Visiony Oct. Grant Vision Oct. O	plant 148 33.2 to 7.26 1.6 7.4 121	Section 1c. 15	Thysels Den 10. 450 11.4	n, July Davies & Wann, 186 12.12 12.5 1.33 6.8 4.5 6. Aug. De La Rue 6.30 14.11 25.5 1.28 5.3 12.1 6. Sept. Diamond St. 10p 32 1.8 0.45 1.9 2.0 pt. 2 1. Buec Distile Reed Sp. 1572 14.1 10.4 2.1 3.7 15.2 1. Nov. Disjonna 10p 4889 12.12 65.0 3.1 1.36.2
24 Mr 24 Spt) Do, 22 ₂ pc '07 (308.8) 933 ₈ xt 16.1 3.30 3.53 J.Ap.Jy.O. \(\begin{align*} \ 20May & 20N \ Do. 22 ₂ pc '03 (310.7) \ 937 ₆ 14.10 3.26 3.46 \end{align*} \]	Wirans Can Pipe. 903p 1124951.92 — 12.4 Jan. June Wette Aprilled How. May Mark Oct. Juny Wilson LEASING Oct. Juny Wilson Jane	lings	Comp Sp. 31 199 d21 19 9.7 7.9 Sept. broad _ 145ml 27.2 46.0 2.9 6.0 6.7 Nov. 11	June Victory & 1	— 008min Prob 125p. 375 — 428. 29 6.0192 at 1. John Door Hidges, 170 p. 102 121 1212 14.0 2.7 4.7 8.9 at 1858 bib Doors Grop, 1851 228 6.12 174 2 2.6 — 2.6 — 2.6 — 2.6 — 2.6 — 2.7 4.7 8.9 at 1858 bib Doors Sarry, 10p. 48
16 Ap 16 Oct Do. 22gec '20 (327.3) 89% — 2.96 3.10	Shock Price 11 Ret Cw Er's P/E ANZ SA1 348 661 0286 321 321 72	— Logica — X-Lorin Jan. John K. E January MMIT Co	10p	Dec Weets Assoc 10p 17 235 0.7 2.8 3.9(9.7) 3.8 May Web Group 33 17.10 ±2.5 2.0 ± £5.3 John Oct 05. 109.5 Cne Pri 35½ 7.9 2.5 8.6 10.1	bec Doper 5p. 95° 3.10 203 12 (33)
GOVT. STERLING ISSUES	Anthor irris	F1.20	americ No. 265 30.12 (200 m) 3.7 0.746.5 Jan. Bus. Sys. 360 28.11 0.1.3 5.7 0.441.3 Nov In Repru. 85 28.11 15 -25 -4 Jan. Foos 10. 750m	July Whenry Won. 20. 18 3012 0.03 25 35 35 35 35 35 35 35 35 35 35 35 35 35	Ant/E/S
234r 235 Eve les 8t lipt La 2002 97% all 1:11.21 11.25 Apr. Oct. 18: 1My 1M Finkant 14/spc La 1986 108 11 13.23 10.35 Jan. July/90 8Ja 8Jy 100-An Dev 8t 12/spc 2003 108 11 11.79 11.68 Jan. July/90 6My 6N Int. Sant 13/spc 1986 1053 71 12.69 10.25 April (2) 3My 30S Do. 149/sl. 1987 1094 11. 12.81 10.48	Barclays E1 526 1581 722 0 3.6 6.0 5.2 Jery BASF Barclays E1 526 25.11 7.75 2.6 Jery Bayer Clort J. Refective J. 122 4.5 Jery Bayer Diort J. Refective J. 122 4.5 Jery Bayer Do. Warrants, 5.2 2.11 726. 2.11 726	AG DM50 5434 222-01074 11 2-931.7 July 7-Miles 46. DM50 544 236 48% 6 2.2 6 2.2 6 6 6 6 6 6 6 6 6	33 10c - 213 20.6 d2.0 3.6 1.3 22.8 Jan. os 10c - 47 50.7	Mey Varrow 50p 325 2811 10.0 1.5 4.4 pg11 May Jac Jac Jac	June Electrica Fr Fr Fr Fr Fr Fr Fr F
1Mr 15 Me* 164ac 2008 984 1-16.82 77.23 May C. 29.9y 270ccl N.Z. 144ac 1967 110 27 12.95 10.64 March C. 4My 48 Do. 114ac 2008 1004 1015 77 11.59 11.50 Jan. Apr. Do. 15Mr 155 Sweden 134ac 1-2010 1144 12.72 10.14 May Ga 22.8 22.9 Do. 134ac 1-2010 1144 1197 1187 May Ga	Com 20to 0 M 10 950 65 Mo1296 4 5 Mar. Sept. 170a 6 Cinga Nbik Kirl00 617 223 v015% 9 9.5 Mar. Sept. 170a 6 Cinga Nbik Kirl00 617 223 v015% 9 9.5 Mar. Sept. 170a 6 Nbik Kirl00 617 223 v015% 9 22% 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	te Group 192 12.12 75.05 3.6 3.8 18.5 Murray 18 18 18 18 18 18 18 1	e Elect 103 16.1 12.52 2.2 3.515.4 Dec. 135 24.11 b2.6 2.9 2.8121.3 Dec. Jen	Oct Ass. Dairies 156 163 h2.25 3.5 2.1/19.7 Jan.	Aug Emray 59
CORPORATION LOANS 70A 310[8ath 11.4pc 1983 1024 30.911.13 10.46 1.4e 10 84ms/mm 12/3pc 1985 1022 112/121 9.65 310 84ms/mm 12/3pc 1985 1022 112/121 9.65	First Nat. 10p 66 974 7.5 Scpt. June(Cory() Bu, Write, 15-83 1 Jan June(Corda West Rook Fa 10t 15-12 - 98c. 2.3 4.3 10.2 - Crota Gerrard Natur 313 33.0 to 13.5 to August + Defe Gerrard Natur 313 33.0 to 10.0 - 4.6 Feb. Cel.Ellis 5	18t. 10p. 119 17.10 7.0 1.1 8.4 159 3.n. July Newman 18t. 10p. 18t.	1085, 100 26 1279 — — — — — — — — — — — — — — — — — — —	Oct. Assar Group 5p 487m 7/2 1938 3.1 2/143 May Oct. Banks (Sukery C.) 215m 1 7/2 1938 3.1 2/143 May Oct. Banks (Sukery C.) 215m 1 7/2 1938 3.1 2/143 May Oct. Banks (Sukery C.) 215m 1 7/2 1938 3.1 2/143 May Oct. Banks (A.G.) — 125. 30.1 6.75 4.9 4.3 6.6 Aug Dec Banyon Mil 200 3.1 19/2/2079/21/21 3.4 30 dec	OCI Expanses int'l 84 17.10 4.5 1.2 7.7 (44) 1.4 Extei 3.5 2.7 2.5 2.7 2.7 3.4 2.7 2.7 3.6 2.7 2.7 3.7 3.6 2.7 2.7 3.7 3.6 2.7 2.7 3.7 3.6 2.7 2.7 3.7 3.6 2.7 2.7 3.7 3.6 2.7 2.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3
2449 240 Cardd Hor 1966 1004; 21.910.92 18.44 Mar. Nov. Gill 15F 15Ag GLC 64.pc 1990-92 794. d 16.1 8.49 18.57 Dec. July Hit 14 17.53 10.38 Dec. July Hit 15B Hierts 64.pc 1985-87 . 123 8.911.50 11.32 dec. July Hit 15B Hierts 94.pc 2006 123 8.911.50 11.32 data 0ctiles 15B47 15B Hierts 94.pc 2008 994.117.10 97.6 97.1	Griedlays	mint 50p. 375 3312(27.0 2.8 3.4)16.0 — Indeed lets of 8 M3 465 156 v11*6 1.0 2.9 34.2 Jan. July Pactrol 10% bala [1.89 12.12 010*b. — [5.4 — Sept FPerios Chem. 61 592m 27.2 24.0 a2.21 3.8 9.1 Mar. Sept Perios Chem. 61 592m	mensis 320	Aug. Bassett Foods. 160 (212 9/5.6 2.9 5.0 (116) Jan. Sept. Battleys York 10p. 72 16.1 62.4 4.6 4.8 5.2 Apr. Apr. Bejam 10p 140 17.10 3.25 2.3 3.317.2 Apr. 40c. Berisbut (S. & W.] 197ml 20.2 9.5 2.7 6.9(6.0) Poc. Berisbut (S. & W.] 197m	July Fiscas £1
130 100	Docyh (Leo) 51. 295 1212 11.29 5.44 July Nov. Laport Dog & Shux 20b. 146 1411 75 7.3 Jac. July Leigh Kleimwort 8.1. 46.0 110 11.0 3.4 August + Alebet Lloyds 51 572 1.8724.58 3.8 6.1 4.6 480de Manno Fin. 20b. 36 31.18 6.1 1.11 4.01128 Jacoury Nov.	te ises, 50g 345 330 39.73 1.7 3.4 (219) May Dec. Philips Fines, 5p 100 3012 710 — 1.4 — Dec. May Philips Fines 10p — 105 — 34 2.0 4.614.7 Apr. Oct. De. M. (18 m) 10b 45 — Q& — 203 Apr. Oct. De. M. (18 m) 10b 45 — Q& — 203 Apr. Oct. De. M. (18 m) 10b 45 — 10b 4	in. 54% 685-j. 1411 654-%	July Bishop's Grp. 273 38121+43.0 — 1.6 — Nov. July Do. "A" N/(g. 215 3812 +63.0 — 2.0 — 0.0 Ct. Bite Bird Cosfec. 72 310 4.73 0.6 9.4 541 Dec. Greewmaker Ip. 35 — — — 10.9 July Doc. Ct. Brit. Verd'y 10p. 26 5.9 0.7 2.9 38121 Dec. Document Office Bord — 835, 1411 4.1 1.2 6.8 (118 Au	Juni Federal 30p
COMMONWEALTH AND June Deck July Mills	Midland \$1	10p 199 30.12 th2 277 5.2 1.7116.2 Apr. Nox.Pressa A. Wm. 10p 203m 27.2 6.5 2.1 4.614.3 — Quest Mis 10p 123 19.9 th1.63 3.0 1.923.9 Feb. Apr. Racal E. Marie L. 27.7 3.20 5 A. 8.14 6.5 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	100 245 310 1.85 4.4 1125.9 Jan. July 30 100 35 4.7 1.016.3 Jan. July 92.75 4.7 1.016.3 Jan. July 92.75 4.7 1.016.3 Jan. July 92.75 2.7 17.016.11.2 2.7 0.76.72 May 92.5 27 17.016.01.12 2.9 0.76.72 May	July Garbury Schips. 129 5.9 14.9 1.9 5.4 11.7 May Schips. 129 4.50 4.50 4.50 4.50 4.50 5.5 4	Nov. Friedland Dat
Lia Lay N.Z. 7140c 1908-92 824 1.12 8.94 10.73 June (30 1345 150 10.74 pc) 1908-92 95 11.12 8.94 10.73 June (30 1345 10.74 pc)		Barker 10p. 13 752	7.100 — 86 19,9 72.2 2.71 3.71(116) 117 (117 117 117 117 117 117 117 117 11	Oct. Do. "A" N/V . 104 17/10/5.4 2.8 7.4 5.4 Jan. 10 Dec Guldery's 20p 220 28.11 4.3 2.8 Mar. 10 Dec Do. "A" 20p 163 2211 4.5 3.8 Apr. 1049 Danish Bcn. A'11 105 25.5 40.1 101 Apr. 1049 Dec Do. "A" 20p 25.4 20.8 \$ 4.19.2 Oct. More Employ (I. E.) 52 28 20.8 \$ Feb. 7 F.M.C 4.4 19.2 Dec Do. "F.M.C 4.4 1	Nov Grampian Hdgs. 80 139 45 2.0
LOANS LOANS Building Societies LOANS Building Societies	Stand's Chart CL 535 559 (27.0) 2.0 7.2 6.5 DRAP Inde Dev. 51.50 517 31.5 DRAP Inde Dec CL 745 13.2 34.0 - 6.5 - DRAP Wells Fargo SS. 527 27 9052.16 - 5.4 - 3 am May (Mess.)	ERT AND STURES July Sound OF	Y50 996 161 088% 1.6 1.3 972 Mar. S Y50.50 154 206 10.29 5.6 0.370.8 Mar. S Cabbe 122 158 75 23 1 4 150 Februa	Sept. Fitch Lone 0 20p 167 161 18.0 1.7 6.8 (182) Feb	July Hanson Trust
9 Apr 5 Oct Do. 114pc 9 ABA 160b 5.911.23 9.60 Hird 30 Apr 30 Oct Do. 104pc 30 A.84 100 & 26.910.68 9.87 29 May 23 Non Do. 107pc 29 5.84 100 & 20.101.028 9.88 Dec 48 10 Jue 6 Dec Do. 107pc 18 6.84 100 & 7.1310.25 9.75 Feb Aug Cat 4 Jun 9.87 Do. 10.3cc 9 7.84 100 & 51770.53 9.76 May Cit	re Purchase, Leasing, etc. Jan. June Agussi Baltic Leasing 50 293 3.10 62.8 3.7 1.4 3.8 Jan Oct 74.5 Date 5 (Hogs) 10a 322 59 (m) 28 2.1 3.6 10.3 Aug. Feb. Baters	cution 59. \$4 23 11 2.05 0.5 5.4 August TUK Cpi A' 5p 35 28 11 2.05 0.3 0.4 Apr. New Tylefisch ey 800 16.1 16.0 2.9 2.9 13.3 Apr. New Tylefisch Str. 100 112 301 2.0 4.8 2.6 11.5 Telemet	19% 228 0755 0 1 2 0 November 20 1 2 0 November 20 1 19% 1.95 2.8 3.8 67 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	July Hinton (A.) 10; 265 28.11 8.0 3.2 4.3 8.8 June 7 House Farm 10; 29 3.0 3.25 3.4 3.3 8.6 One, Kiwik Saye 10; 17 4 28.11 8.5 27 2.9 18.4 Dec. Aug. Lermons Go. 10; 38 12.12 10.85 1.2 3.2 (8.9) Apr Nov. Lovel (G. 7) 105 2.3 662.9 27 27 3.1 al. Love (Wm.) 20; 338 28.11 8.5 3.0 3.4 10.3 June	Oct # Haytes
25 Jan 30 Joj Do, 107 pc 30 7.84 1800 pc 28.12 10.82 9.51 Mar. July Lu 15 Jan 20 Jan 20 11.14 pc 20.084 1800 pc 16.3 11.5 9.41 Jun Febilie 29 Feb 3 Sep Do, 11 pc 59 284 1801 pc 1801 9.24 9.45 Oct. Mar. July 1801 9.45 Jun Febilie	nd Son Fin 10p 53 161 25 20 6.7 9.3 Jan. Nov Bental Morpute Mer. 10p 271 161 01.1 1.7 3.7 1231 Feb. Sept Board Prov. Financial 170 199 18.0 19 67 11.3 January Botton Chin In June 10 10 10 00 1	man KO 5p 14-2 8 11 — — 18.7 Jan. July Bo je in Fee 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MI 645 30.1 15.75 2.5 3.514.5 On. May FFERT 143 1431 75.33.5 6.1 June W. 100 172 11.0 3.0 5.4 2.516.5 Apr. pa 150. 189 11.2 Q14% 2.2 1.924.4 Not.	Matthews (8) 179 15.9 45.25 5.21 4.2 5.1 July Nov. Meat Trade Sep. 22 13.25.25 1.2 6.71.15 May Nov. Meat Trade Sep. 22 13.25.25 1.2 9.113.5 May Nov. Meat Trade Sep. 22 13.25.25 1.2 9.113.5 Feb.	Novel Incompany Const. 153 310 154 16 52771
rudic board and its.	Magon Finance 49 of 27 2.5 1.5 7.3 1.3.3 Mar. Aug Burton Headers in HB2 177 30.1 c003.5 4.1 17 15.3 June Calve (May Nov. Canton June Oca Costor)	(A.) 60 95 05 - 12 - Apr. Oct United	100 275 132 466 33 24205 22	OctiNiciois (Vieno) _ 528 19.9 11.5 2.1 3.2 2.1 Dec. Feb. Northern Foods 186 18.1 26.5 2.3 5.0 1.4 June Oct. Nordin Piz. 10p 144 13.9 43.2 2.3 5.0 14.4 Dec. SeptPark Food 10p 85 3.0 43.6 2.8 5.0 44.6 Dec. Northern Levis 1.5	Sept. Holls Bros. 22p. 53 1279 B
Financial 20J 20D mvin led 64gc0b'81-84 99 1710 6.46 10.99 Jan. July 8a 11Ja 1Lby Do. 101-pctin len 86. 1604 28.11 14.61 11.15 Mar. Sept. 8e 11Ja 1Lby Do. 11gc Unst.n. 89 162 28.11 14.61 11.75 Mar. Sept. 8e 11Ja 1Lby Do. 11gc Unst.n. 89 104. 38.11 17.91 11.70 1	Miled-Lyons	300 3110 16.75 2.4 3.2183 April Oct Whilesale	1.12p. 360 11.2 3.5 1.1 1.7217 March 11.5 60 19.9 11.2 15.1 3.1 6.5 Jan. Jan. Jan. Jan. Jan. Jan. Jan. Jan.	Nume Rowntree M. 50p 244 1411 18.8 2.4 5.210.4 Aug. 0 Safewa 751.663 (164ad 72.2051.58 6.0 Apr Nume Sainstory (J.) 470 1212 75.85 3.81 1.8112.3 Feb. Feb. 470 33.1 10.122 2.43 3.811.3 Apr 48.81 4	10,0 kg 1 C. Indicatrice
303 310 to 76c A bet 3492 89 [A11] 931 1130 [Jan. Jay 80	Sorger Serew 1. 258 July 2-15-5 1.3 2-725.1 June Vectorines Revew (Matthew) 212 11 7.42 2.4 5.018.3 June Mov. Ulis 6. Suddery (N. P.) 59 203 July 2-45 1.6 7.310.3 Nov. June Empiri Mark (Matthew) 375 7.1 10.0 25 3.018.2 April Oct. Execut June (Matthew) 375 7.1 10.0 25 3.018.2 June July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 Jun. July Files Americal Mark (Matthew) 375 7.1 10.0 25 3.015.9 June 3.0 10.0 25 3.0 25	tex 200 37 AFI	rods 22 13.4 8	re Soundarder 37 27.00 d.l. 37	Lines Indi. 10s 36 2277 128 15 51 191 Jose Warder of High. 36 25 25 25 25 June Varder of High. 38 25 25 25 June Varder of High. 38 319 1.06 25 25 105 Agr. Johnson Clara. 338 221 10.8 28 4.8 95 Agr. Johnson Clara. 338 221 10.8 28 4.8 95 Apr. Johnson Clara. 338 221 10.8 23 4.8 95 Apr. Johnson Clara. 338 221 10.8 13 53 10.9 Apr. Johnson Clara. 338 221 10.8 13 53 10.9 Apr. Johnson Clara. 338 221 10.8 13 10.9 Apr. Johnson Clara. 338 221 10.8 13 10.9 Apr. Johnson Clara. 338 221 10.8 13 10.9 Apr. Johnson Clara. 338 221 10.8 10.9 Apr. Johnson Clara. 338 238 238 238 238 238 238 238 Apr. Johnson Clara. 338 238 238 238 238 238 238 238 238 Apr. Johnson Clara. 338 238 238 238 238 238 238 238 238
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1/a 1/y Do. 5pc 1913 9 - - - Oct. Aug lim	Signard Dist. 20p. 104 14111 3.2 2.2 4.011.6 Apr. Oct. Geffer 150 104 4.0 2.5 3.6 14.9 May Nov Sent 5 15.0 14.0 2.5 3.6 14.9 May Nov Sent 5 15.0 14.0	5.0.) 10p. 196 - u5.0 3.3 2.2 15.6 Nov May Babcock	[면니는 [27] [5.명 7.0 1.위 5.8]11.6 [OTELS AND CATERERS pt. Comfort int. 10p. 42 1212 10.45 2.21 2.3123.8 0st. and the Vero Hotels. 293 1411 15.5 0.8 2.778.5 July-10 15.5 1	April Kerdnev (A.) 59. 226mt 27.2 15.0 0 10.2 0 April Kerdnev (A.) 59. 226mt 27.2 15.0 0 10.2 0 April Kerdnev (A.) 59. 2212 45. 0.5 7.6 97. 2111 3.6 1.5 5.3 65.0 April Ker, int. 109. 255. 650 April Ker, int. 109. 109 201 m2.95 24. 1.912.2 lett. Lancat Högs. 109 56. 51.10 71.3 18. 3.322.0
14p 10 Greek Type 48s. 52 111 3.50 66.87 3.449.Nov. 48a 15 1 10 00 doc Mored Ass. 46 1.12 2 3 6.02 65.0 0.149.Nov. 48a 1.189 0.189.Nov. 68a 1.180 0.189.Nov. 68a 1.180 0.189.Nov. 68a 0	Tan Descheves 100 311 313 31	letts 10p 322 224 125 — 5.5 — Feb. Oct Bevan (0 1 10p	F.) Sp 17 1 100.25 — 2.1 — May Nor sulcass (87) sul (27 2 33 3.9 3.8 75 Apr. 0 May Nor sulcass (87) sulcass (v Hurtstein 10, 167 310 18 7,0 8,8172 Mar. ct. Grand Mer. 50p 344 112,943 2,7 4,9105 0cc. Hurt Leisure 50 43 12,22 0,22 4,0 14,817.7 Jan. decl. Laddrote 10p 227 15,9 14 0 0,9 4 Jan. ct. Laddrote 10p 227 5, 960 1,9 5,912.8 Jan.	April DH Group 255 548 31 32 25 25 25 25 25 25 25
1Ap 10 Pern Ass. 2007 161 1.16 5.22 13.29 Jan. June Wo May 1 Turin 9pc 1991 592 3.5 9 9.78 Dec. Jel You 15Ap 150 Turin 61gpc 1984 0M 93 27.10 6.5 13.90 July Dec. Dec. Dec. Dec. Dec. Dec. Dec. Dec.	ore, Godley 226 272 341 445 14 33110 May Nov, Newrighting Bree 1 292 341 445 14 2420.6 Jan. June Hepman Jon Nov. 1 14 3,812.9 Mar. Oc. No. 10 14 14 15 14 3,812.9 Mar.	nes a 109 / 287 1739 2-5 1.39 7.7]1a 2 Feb. Sept Braham & tr. [1739 2-5 2-2 3.2]17.7 Jan. Oct.] Oratibres Grp Sp. 28 30.1 2.0 1.5 10.2 9.1 Jan. Nov. Brasway	ma 149 20 maria 1.0 1.9 3.511.4 mayoo: ter \$1. 172 111 9.1 2 m 7.6 5.6 Apr. 0 100 m. 36 121 pul.0 — 3 — July-Dec	Int. Charlone 100 56 5.9 1.92 2.6 2.6 1.5 1.	Most Pric Repth 38

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Financial Times Monday M. NOUSTRIALS—Confilmed Not Not	TO ADVISIONS AND LEATURE AND A
Jan May Wate-Petts, 265 4991 277 22 18 58 221	TRUSTS, FINANCE, LAND Unreduced Trust PROPERTY PROPER

The state of the s

Dollar's fall continues

The dollar showed no sign of sustained recovery last week, although there were days when some attempt was made to rally the currency. Any halt to the the currency. Any halt to the downward slide was only the result of e temporary technical

some attempt was made to ratiy the currency. Any halt to the downward slide was only the result of a temporary technical adjustment as dealers covered short positions.

Economic news was rather thin on the ground, but the figures published did nothing to boost the dellar. Leading indicators for the U.S. in January rose by 1.1 per cent, much in line with expectations, but continuing to fuel fears that fast rising occommic growth will cause inflationary pressures later this year.

Weekly M1 money supply rose by \$1.7bn, rather less than the foreign exchanges.

As sentiment has moved against the dollar different statistics have tended to dominate the market's attention. Rising money supply until recently would have pushed the dollar higher because of the implications of high interest rates, but last week thore was much more concern about the trade figures. The market was expecting a January deficit of shout \$7bn to \$8bn, but was disappointed by the rise to a record \$9.47bn from \$6.74bn in December.

EMS EUROPEAN CURRENCY UNIT RATES

+1.93 +0.67 -0.32 +0.19 -0.14 +0.26 -0.70 9,141pa 2,24184 6,87456 2,52595 0,72569 1403,49

THE POUND SPOT AND FORWARD

Close One month

1.4806-1.4818 9,70-0.12c dis
1.5520-1.8530 0,08-0.18c die
4.313-4.322 13-7c pm
78.30-78.40 13-25c dis
18.04-14.05 13-25c dis
18.04-14.05 13-25c dis
18.240-1.2470 0,24-0.36p dis
1.20.45-220.65 13-7c dis
1.20.45-220.65 170-190c dis
1.20.45-220.65 170-190c dis
1.20.45-220.65 170-190c dis
1.96-11.07 143-154 lire dis
1.47-11.48 1-25re dis
1.47-11.48 1-25re dis
1.47-3383 0,76-0.68y pm
1.55-27.90 75-6-5gr pm 3
23-3-193 13-13c pre
1.20-1.05c dio, 12-month 2 k 14.00-14.09 1.2440-1.2550 8.81-3.85 1 91,75-194.00 220.25-221.50 2378-2355 11.05-11.12 11.77-11.85 3361-3471 26.80-27.15 3619-3471 26.80-27.15 3619-3411 ionus

OTHER CURRENCIES

Mar. 8	£	8		E Mate Batas
				Note Rates
Agentina Peso	43 95 43 34	99.19.99.81	Austrio	95.90-97.20
Australia Doller	1 6455.1 5675		Beiglure	
Brazil Cruzeiro	1 780 4 1 799 5	1 207 1 013	Denmark	
Finland Merka	8 2700 B 3040	5 6076.5 6098	France	11.75-11.80
Greek Brachma	149 70 150 10		Germany	3,814-3,851
Hong Kong Dollar			italy	
ran Rial	11,000.11,047		Japan	329-334
KuwaitDinar(KO)	0.47700.4740		Netherlands	4.804-4.34
Luxembourg Fr		B9.88-09.80	Norway	11.04-11.1
Malaysia Bollar	3.4473-3.4238	0.5190-8.5080	Portugal,	185-202
New Zealand Ulr.		1.4920-1.4949	Spain	9174-2287
Saudi Arab. Riyal			Sweden	
Singapore Dollar	3,1350-3,1410	2.1090-8.1120	Switzerland	3,19-3,22
Sth African Rand				
U.A.E. Dirham	3.4415 5.4490	. 3,0720-3,6730	Yugoslavia	199-205

** The rate on March 1 should have reed 3,6720-3,6730.

FINANCIAL FUTURES

against the dollar, but moved down with the U.S. currency against Continentals. Oil supplies and the war between Iran and Iraq overbung the pound all week, keeping it rather pervous, while the January UK trade figures were regarded as disappointing, with the market expecting a small surplus and LONDON March 90,02 90,02 89,97 89,94 Junie 98,53 89,53 89,46 59,43 Sept 89,19 80,14 89,07 Dec 88,88 86,90 86,95 88,77 March 88,63 — 88,53 Volume 3,242 (4,857) Previous day's open int 12,298 (12,266) expecting a small surplus and not the published deficit of £339m. £ in New York March 0 Prev. close Spot | 51.4850.4840|81,4860.4870 1 month | 0.10-0.19 dia | 0.10-0.11 dia 5 monthe 0.42-0.44 dia | 0.42-0.44 dia 9 monthe 0.32-0.57 dia | 2.17-2.22 dia FORWARD RATES AGAINST STERLING 3 month 1.4854 3.80 12.0150

8 pot 1.4810 3.83 11.79 3.1925 338.0 3.1113 BANK OF ENGLAND TREASURY BILL TENDER £509m £481.475m Average £100m £100m rate of discount 8.5909% 8.8475% 8.78% 0.04% Minimum eccepted bid £97,853 £97.79
Allotment at rainiraura level... 742 442 £100m

THE DOLLAR SPOT AND FORWARD

Mr Paul Voicker, chairman of the Federal Reserve Board, re-inforced his earlier comments about the U.S. becoming e major world debter last week, and this also undermined confidence in

also undermined confidence in the dollar. The D-mark was the main beneficiary, rising to its highest level against the dollar for over four months, but on Friday the Japanese yen was showing signs of recovery, after remaining closely tied to the weakening dollar for some time, and rose to its highest level for over a year.

Sterling was slightly firmer

One month
0.07-0.12e die
0.22-0.19e pm
0.02e pm-per
1.00-0.90e pre
11-14e die
0.20-0.70e die
0.36-0.91pf pm
175-375e die
110-125e die
9½-101/m die
1.80-2.30ore die
0.30-2.30ore die
0.30-0.50ore die
0.57-0.53y pm
1.22-1.18e pm
1.20-1.50ore pm
1.22-1.18e pm
0. currency. Fo p.a. months
-0.77 0.41-0.484s 2.06 0.72-0.44 pm
0.10 0.97-8.05 pm
3.92 3.02-2.92 pm
-2.94 34-38 dis -0.57 0.10-0.404s -0.57 0.10-0.404s -3.31 450-9004s -9.47 315-350dis -9.47 315-350dis -7.17 23-30 dis -3.29 5.10-5.804s -1.01 0.95-1.450dis -1.01 0.95-1.45dis 8.43 2.15-2.11 pm
3.83 28-25-17 pm 1.4785-1.4805 1.1875-1.1930 1.2493-1.2510 2.9085-2.9185 52.70-53.00 9.4650-9.4925 2.6735-2.5870 130.00-130.70 146.50-149.10 IK and Ireland are quoted in U.O. currency. Forward premiume of counts apply to the U.S. dollar and not to the Individual current Belgian rate is for convertible france. Financial finnc 54.80-54.70.

CURRENCY MOVEMENTS CURRENCY RATES

Mar. ā	Bank of England	Morgan Guarunty	Merch 2	rate %	Orawing Rights	Unit ·
		Changes%	Sterling	818	0.717017	0.584016
U.S. doffer	89,4 195,5	+14.9	Canadians		19.3550	1.08026
Canadian dellar	90.4 117.8	0.6 +4.0	Beigian Fr		58.1781 10.0741	43,8032
Belgian franc Danish kroner	90.8 79.8	-10.0 -3.3	D'mark	4	8.74555 3.09577	2,52436-
Swiss franc.	198.2 149.1	+9.2	French Fr	04	1709.09	3.89267 1393.70
French franc	116.7 67.3	+8.0 -14.5	Yen Norwan Kr		7.94857	801,611
Yen annual and	48.9 156,4	-12.9 +13.1	Spanish Pts.		168,132 6,85343	108,944
Morene Queresty	-	average	Swiss Fr Greek Broth	4	8,29613	1.87058
1980-1982-100, Ba (base average 1975		end ledes	*C\$/SDR r			

EXCHANGE CROSS RATES

Mar, O	Pound St'Hing	U.S. Dollar	Deusche r	m'k JapaneseYen	FrenchFranc	Swiss Franc	Dutch Build		Canada Dollar	Beiglan Franc
Pound Sterling U.S. Dollar	0.076	1.481 1	3,830 2,084	. 0,888.0 . 0,888	11.79 . 7,963	3,193 -3,154	4,38%	0382,	1,853	76,85
Deutschemark Japanese Yen 1,000	0,281 2,939	0.387 4.262	11.33	88,25 1000,	3.078. 34,88	0.834 9.446	1,100	ar1.8 7048.	0.484 6.481	26.46 051.8
French Franc 10 Swiss Franc	0,848 0,313	1.256 0.464	3,949 1,200	283,7 106,0	10. 3,693	2,701	3,666 1,354	2020. 746.0	1.671 0,580	85.48 84.64
Dutch Gulider Italian Lira 1 000	0,231 0,480	0.343 0.888	0,886 1,806	78.20 141,0	2,726 4,951	0.739 1,341	1,815	651,R 1000	0,429 0,778	18,13 50,90
Gunadian Dollar Bilgian Franc 100	0.540 1.878	0,799 1,890	8,067 4,888	168.3 431.4	6,364 16,03	1.723 4.075	9.333 5.517	1286. 3040.	2.864	49.99

EURO-CURRENCY INTEREST RATES (Market closing rates)

Mar, G	Sterling	U.S. Rofler	Canadian Dollar	Dutch Guilder	8wiss Franc	0-mark	Franch Franc	Italian Lira	Belgian Conv.	France Fin.	Yen	Danish Kroner
Short term	813-814 914-914 914-014 016-914	01g 93g 01g 01g 83g-10 10-101g 101g-101g 103g-11	014-854 056-978 858-018 914-013 10-1014 1056-1058	54-54 64-54 6-61s 54-64 34-64	254-3 G1g-254 S54-31g S54-354 S18-4 414-414	24-04 24-21 24-21 24-21 24-21	194-1234 104-13 134-1375 134-1375 184-174 1619-174 16-164	1354-1634 1334-1714 1358-1718 1734-1734 1716-18 184-1854	01g-10 1214-1314 1234-1314 13-1318 1034-1314 1214-1914	9% ·104 114 ·114 18 ·104 10 ·104 12 ·124 10 ·124	612-654 614-334 614-614 814-614 614-614	914-101 1014-103 11-111 1114-113 1114-113

Asian \$ (closing rerax in \$ingapore). Shart-rarm 9113-91134 per cent; seven days 9113-91134 per cent; one month 92-10 per cent; three months 102-1034 per cent; aix months 102-1034 per cent; one month 102-1232 per cent; one month 102-1232 per cent; one month 102-1232 per cent; four years 123-1232 per cent; five years 123-1234 per cent; one months 103-1034 per cent; five years 123-1234 per cent; four years 123-1234 per cent; five years 123-1234 per cent; four years 123-1234 per cent;

MONEY MARKETS

Conditions tighten but rates fall

Credit conditions tightened sharply in the London money market towards the end of last week, after a fairly comfortable start. A major factor behind the sudden change was the pay-ment of £lbn in Potroleum Reveoue Tax, due on Thursday.

After other factors were taken
into account this left a shortage
on the day of shout £800m,
which the Bank of England
mainly absorbed by £651m of
bill repurchase agreements.

The euthorities now hold so
many bills that the unwinding
of oarlier agreements and the MONEY RATES of oarlior agreements and the refinancing of bills maturing in official bands are nearly always

the major reasons for daily shortages, and clearly another £thn in tax money was going to strain the system too far. It was with this in view that the Bank of England announced

UK clearing banks' base lending rato 9 per cent (since October 4 and 5) s gilt repurchase agreement the

previous week, and on Friday the banks took up £668m of the possible £900m roughly offsetting the adverse factors and loewing the day-to-day credit position almost flat. Conditions roughly in balance were also initially forecast no Monday and Tuosday, but these

FT LONDON INTERBANK FIXING

bld 10 1/16 Offer 10 5/16

shortages. Exchequer transoctions adding funds to market
liquidity, partly through payment of gitt dividends, were
largely responsible for keeping
conditions relatively easy until
the chango in Exchequer flows
of the week, and this process
Although sterking lost ground
to Continental currencies, and
was seen as vulnerable to the
world oil supply situation as affected by fortunes of the countries involved in the Gulf War, London dealers were more improssed by the pound's performance against the weak dollar, and this tended to set the tone for inerest rate movements.

Rates declined slowly for most of the week, and this process tended to accelerate on Friday despite sterling's worsening position against Continentals. The yield curve in the interbank market went virtually flat at 9-9; more cent for periods from ocemonth to six months, e fall of between ‡ per cent and ‡ per cent on the week. Caution may be proved the tree is growing speculation around the City obout a possible cut in clearing bank base rates to coincide with the Budget later this month, and the Treasury blu rate fell to its lowest level for nearly six years at Friday's tender.

Frankfurt Zurich | Amst'dam | Tokyo į 6.81g 6.35583 | 1674-1714 | 11.8 6.53128 | 1376-1714 | 12-1014

359-834 17-1730 19-1814 12-1914 6,281 25 518-614 Discount Houses Deposit and Bill Rates LONDON MONEY RATES

Certiscat of depos 9-91, 9-91 6-918 1 94 94 874-815 834 816-875 조립-0 8년-8개 8년-8개 8년-8개 878-877 844-834 832-834

	Local Auth. negotiable bonds	Authority	Firtance Nouse Deposits		50R Linked Deposits	ECU Linked Deposits
month months months months months fears years years	914, 914 915, 914 954, 954 954, 954	10 101a 101a 101a 101a	9/6-914 9/14-914 914 954 954	9.65-0.75 9.75-9.85 9.86-9.95 10.1-10.2 10.3-10.4 10.45-10.55	9.1.0	91e-10-1 9:3-101e 9-2-101e 9-2-101e 10-2-104e
Jenuar	d Rate Exp 4 to Feb finence he	Musico 7. 1	984 finel	usival. S	803 mas as	1

MONEY RATES NEW YORK (4.00 pm) Broker loan rete Treasury Bills

Dublin

Treasury Bonds

of 100%

Close High Low Prev 109-10 109-19 109-07 109-08 109-10 109-07 109-04 109-04 109-05 1 CERT. DEPOSIT (IMM) \$1m points of 100% Closs High Low Prev March 1,650 1,4872 1,4900 1,4785 June 1,4890 1,4920 1,4950 1,4812 Sept 1,4943 1,4955 1,4943 1,4960 Volume 225 (255) Previous day's open Int 361 (404) \$5.75 89.75 89.27 89.27 88.80 88.80 88.60 \$8.60 89.32 88.32 88.05 \$8.05 STERLING | HARA) Se per E 1,4875 1,4925 1,4975 1,9010 1,5100 SWIDS FRANCS SWFr 125,000 \$ per DAMA (CET) 8% \$100,000 32nds 70-01 70-08 68-31 69-07 68-04 68-10 67-12 67-14 Close High Low Prev 0.4400 0.4400 0.4320 0.4227 0.4440 0.4445 0.4344 0.4326

CHICAGO

U.S. TREASURY SILLS (1864) Sim points of 100%

WEEKLY CHANGE IN WORLD INTEREST RATES

55-06 65-22 95-00

86-05 85-23 86-76

65-00 65-19 66-07

LONDON	Mar, 2	change	NEW YORK	Mar, 2	change
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FINANCIAL TIMES

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Entries are not restricted to architects but are open to all professional categories within the building industry. Owners and contractors ere also invited to nominate such designs for consideration. Conditions: Nominated buildings must have been erected in the UK and

completed within the two years ending December 31, 1983. Nomination Forms together with Conditions of Entry can be obtained directly from: "Architecture at Work Award", Financial Times, Bracken House, 10 Cannon Street, London EC4P 4BY.

Closing Date for Entries: Friday, April 27, 1984

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TION

Contractors throughout Europe are reporting a shortage of orders, as financing problems affect both developed and developing countries. Competition is becoming fiercer, too, with newcomers from Japan, Korea, Turkey and elsewhere entering the fray

Bumping along the bottom

By JOAN GRAY, Construction Correspondent

they just think things have got

to get better because they can't get any worse," he said.

The gloomy view from Britain is echoed by contractors from

Philipp Holzmann, the German

giant which has this year slipped from its ranking as one of the top five international contractors, has found that its

new international husiness in

1983 was about half the DM 3.2bn it achieved in 1982.

contracts, like all the German

construction companies," said Holzmann executive Herr Pfeif-

fer. "1983 was the worst year for German construction com-

panies since 1973 when the oil price problems started. Inter-

national contracts awarded to

German companies (other than contracts in the U.S.) were

worth only about DM 4bn in 1983, compared to about DM 8bn

in 1982 and about DM 12bn in

Workload down

and the situation was no better

in 1983, said Sra Lia Zuccia,

the rest of Europe.

unanimous answer from of British construction companies questioned about how they see their international market prospects.

Take Mr John Armitt, assistang managing director of John Laing International, for ex-ample. "No-one in the con-struction industry in this country would say there is any sign of improvement." he says. "In real terms our inter-national worldoad for 1984 is on national workload for 1984 is on the increase because we've got a couple of large contracts out-standing in the Middle East, but looking at 1985 and 1986 I can only say it's a different picture. I wouldn't pretend for a moment the prospect is rosy." Mr Don Holland, chairman of Balfour Beatty, echoes his gloom. "The number of identifiable major projects gloom. "The number of identifiable major projects—such as dams, harbours and ports—is now very much smaller. Markets are just disappearing because of shortage of finance in the developing world, let alone the developing world."

The Italian contractors are faring similarly badly. The year 1982 showed a 60 per cent decrease in new contracts won

I query on what hasis—unless organisation which represents

world I certainly don't see any boom times." Mr Fred Tarrant, managing director of Costain International is also doubtful whether there will be any early improvement. People say 1985 is going to be better, but Italian construction companies, ANCE. According to ANCE's figures, the Italian contractors were faring far worse than competitors such as the French, who experienced a 20-25 per

On top of the gloomy reports from Britain, France, Germany and Italy, the workload of the Danish, Dutch and Belgian construction industries is

The reasons why the older European construction industries are doing so badly can be put quite simply: there are fewer projects available, more companies fighting

nem. per cent of its total to 80 per The established international cent, from \$711m to \$1.1ba. contractors are having to adjust to a world where their traditional markets are shrinking and they are faced with more and more new competitors.

"There is a desperately competitive situation in world mar-kets because of over-capacity in tha construction industry," said Robin Foster, secretary of the UK international contrac-tors' trade association, the Con-Industry Export

"World capacity has built up since the war, encouraged through the affluent times of oil plenty, and over the last three years there has been a great dive in the number of projects

Japan, Taiwan, Korea, Turkey, Poland, Yugoslavia, China, Pakistan and Greece have all financially innovative construc-tion companies competing for the shrunken international mar-

This shifting pattern of com-petition is echoed in the rank-ing of the top international contractors (see Tabla).

The Korean Hyundai, for example, is now ranked at number 10, having moved up from 13th place the year before. Japan's JGC is now at 13 from 50 the year before, and the Japanese Chiyoda is at 25 from number 48. Turkey's Enka Insaat has arrived at number 24 from 45, and there is a new Greek entrant at number 27, Consolidated Contractors Inter-

national, of Athens.
All these companies have increased their proportion of international work over the past year. Chiyoda, for example, has, in a declining international market, managed to increase its international workload from 49

Under threat

Established European contractors feel threatened by this new competition—but, as Mr Bill Francis, a director of the UK's Trafalgar House, points out, there is a solution. "Don't compete head-on with tha Japanese companies but find a specialist market. People who are efficient and competitive can develop their own markets and expand overseas."

Another approach is, if you can't beat them, join them. "We compete with the Japanese and have joint ventures with them," says Balfour Beatty's Mr Hol-land, who instances co-operation on power line construction with Sumitomo. "We don't with Sumitomo. mind getting under the Japanese umbrella because they are good payers and if you are a sub-contractor you can help them with the language and handling local customs."

consultants Rendell Palmer and Tritton are now following opportunities arising from a recent Government

British companies was spon-sored to visit Japanese contractors and trading houses to see if there were any possibilities for co-operation between them. At the same time, however, contractors are having to look round the world, ruefully crossing off places where they can countries are regarded as too politically or financially un-stable to be good credit risks. Mr Holland of Balfour Beatty lists a number of places which have now "gone off cover be-cause they are not financially stable enough to service their debts, so the government's

Export Credit Guarantee De-partment won't cover their loans." The list include nearly the whole of Latin America, much of Africa, Iraq, and a variety of other countries. One of the most promising new markets for construction new markets for construction companies is South East Asia, with its growth rate of 5-6 per cent and heavy investment. The Asian Development Bank put nearly US\$900m into just four countries—Indonesia, the Philipines, Thailand and Malaysia—in 1982, 70 per cent of which was spent on hig construction.

was spent on big construction contracting, those that do look promising begin to exhibit a "honeypot effect" as they become the focus of attention for companies throughout the world. And, since getting construction contracts requires long term planning—major projects

queue. The time-lag in getting contracts is another reason for con-

are not picked up by fetting in with a suitcase—newly-arrived companies are likely to find themselves at the end of a long

Rellogg Rust, U.S.
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22 Rrown and Root, U.S.

23 Costain Group, England

24 Enka Insaat ve Sanayi AS,

France Nanyang Corpn., Korea Lurgi GmbH, West Germany Including J. A. Jones Const. Company

cause of the tima taken to win contracts, today's figures reflect orders won years ago, so over the next few years tha full effects of the recession will make themselves felt in even further reductions in work-

Turkey Chiyoda Chemical Engrg. and Constructs. Company, Japan

SPIE-Batignolles, France ... Consolidated Contractors Int.

Many European contractors are unhappy, too, at what they

President of the UK Construction Industry Export Group, said the industry was now lobby-ing the Government to ensure that the level of aid compares with that advanced to European competitors. It is also arguing that overseas aid should be geared to getting money back, for British industry."

lowing opportunities arising tractors' concern about future are lobbying their government and look at ways other than from a recent Government workload, explained the UK for more support, and are partitraditional ways of obtaining initiative, where a group of Export Group's Mr Foster. "Be- cularly concerned at what they work."

feel is the much more modest than their French competitors. For the established European contractors it may be that whole areas of classical civil engineering work-such as road building -no longer are going to be available to them because their costs are too expensive com

pared to their new competitors. They will have to look increasingly to the special skills they have to offer, and to become more involved in putting together financial packages back work they want to do. As Mr Armitt of Laing put it: "I am quite sure there is no panacea and no pot of gold just sitting there for some bright have to work harder and more diligently at existing markets and look at ways other than

ш Contractors Construction equipment IV Technology IV Outlook far cement PROSPECTS ABROAD: North America Latin America Africa Europe

VI

The Middle East

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The growing municipal and industrial water demands of Lagos and Abeokuta

will be met by a new reservoir created in the Nigerian scrubland. Work is now completed on the £60 million Oyan River Dam and Power Station in Southern Nigeria. The 9MW Power Station will supply electricity to homes and factories in the area. Elsewhere Wimpey dams are providing much needed water and power. At Maseru in Lesotho the Magalika Dam, a £2.7 million project augments the water supply to

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> project, including a power house,
> the main dam, power installations and a number of smaller rock fill dams.

Bank is now complete. Seven storeys construcfacings, the four upper floors are suspended from a space frame supported on four conditions. complete. Construction is in progress for headquarters of the

Hongkong and Shanghai Banking Corporation. It stands 41 storeys high. And, like all good banks, will open on time.

RE'S A WILL THE Supply lines, work in Kenya Is complete of terrible weather and difficult supply lines, work in Kenya Is complete of terrible weather and difficult supply lines, work in Kenya Is complete of the building of houses has been at the core of our activities for over 50 years and continues to grow intermationally. In Trinidad, where we have just completed a £7 million housing contract at Arouca, George Wimpey intermationally as won a further £7 million housing to contract at Arouca, George Wimpey intermationally as won a further £7 million housing contract at Arouca, George Wimpey into the construct a block of Port of Spain. To Sultanate of Ornan has completed a £11.6m contract for a housing complex for the Oman Cement Company.

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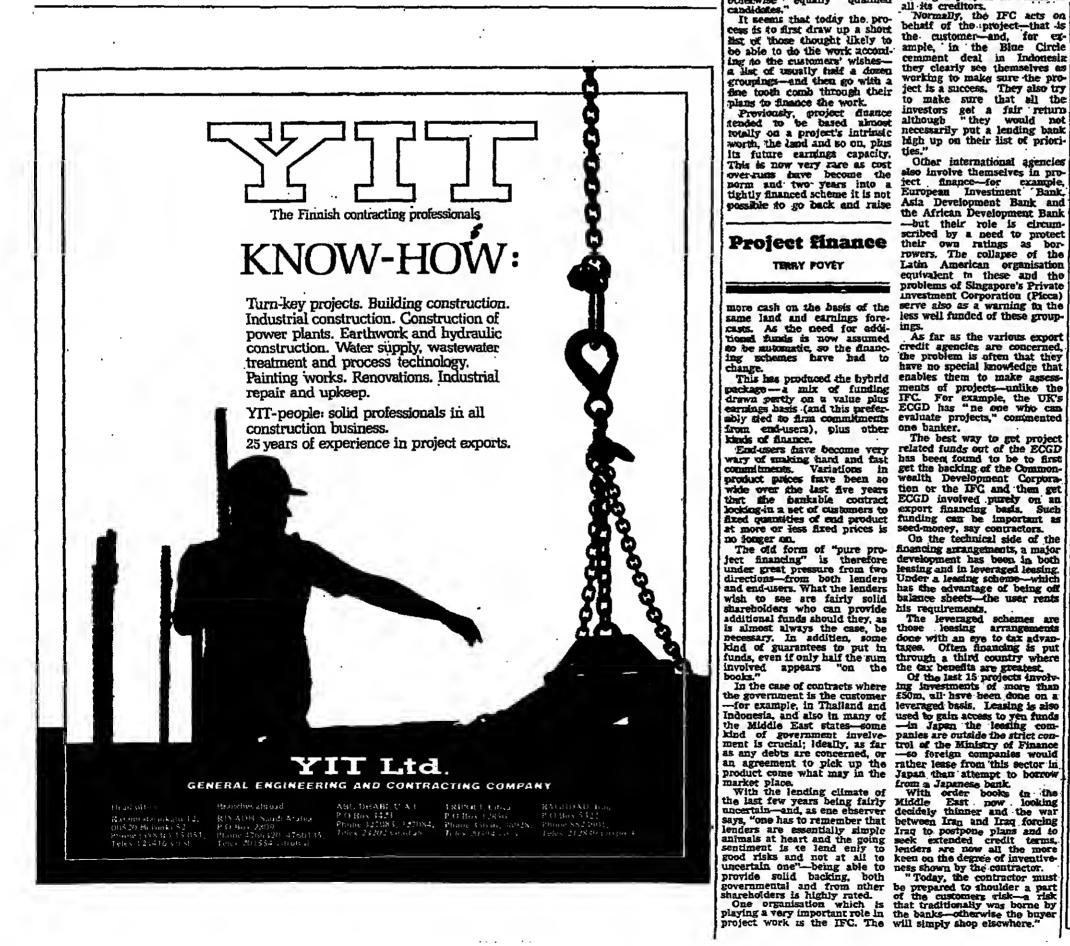
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INTERNATIONAL CONSTRUCTION II

The competition intensifies

BRITAIN'S construction con-sultants working everseas bad their best year ever in 1982-1983. The combined earnings of engineers, architects, and quantity surveyors totalled almost £619m, a contribution Mr Alan Parish, chief executive of W. S. Atkins, exceeds that made by UK banks. However, neither he nor his colleagues among the other top international consultants, are very optimistic about the future as far as evergeas work

is concerned.

The changes afoot are all related to each other. The world's ell-based economies, which kept British consultants hasy for the post decade, are beginning to feel the pinch. As a result, there is more insistence on value for money in construction. for money in construction prejects and less whim and

CRITAVASADCE.

Competition is getting tougher all the time—and winning the work is far from the end of the difficulties. Taking advantage of the "clients' market" situation, some countries are making it increasingly difficult for consultants to obtain their fees

sultants to obtain their fees in hard currencies, and to remove their earnings from the country of origin.

"You don't go abroad for your helidays," says Mr Owen Luder, who has many years' experience. "Be light on your feet. Don't get overexposed, try and get fees 'up front' Be prepared for a hard sleg.

"On the other hand, you may be pleasantly surprised by the better relationship

"WHAT WE now face is a largers' market and probably the major factor in awarding contracts is the financing package with which the dif-

ferent companies or consortia bidding for a project can come

This was the view of a UK-based merchant banker, Merchant banks are increas-ingly becoming involved in

construction projects as the complexity of the financing packages grow. "A detailed fin-ancial analysis of the package is a critical part of choosing

ong a number of perhaps

otherwise equally qualified

It seems that today the pro-

ing to the customers' wishes—

groupings-end then go with a fine tooth comb through their

its future earnings capacity.

possible to go back and raise

TERRY POYEY

more cash on the basis of the

This has produced the bybrid enables them to make ass

plans to finance the work.

which develops among the professional team and the contractors when working overseas. Finally, never expect to get paid the last 10 per cent of your fee—you probably won't."

probably won't."
One remedy is working in
Third World countries on
projects financed by the
World Bank and other international agencies. They are
usually great dilents and the usually good clients and the schemes they support are im-portant and satisfying. But in terms of overall sums, this source is little more than a

Insuring with the Govern-ent's Export Credits Guarantee Department is one way of huying peace of mind. Since its introduction in 1972, the ECGD's standard investment insurance has provided cover again. losses arising from war, expropriation and restrictions on the transfer of remittance for a flat rate premium of £1 per cent per again. annen, plus a commitment premium of \$0.25 per cent per for future retained earnings At the end of September 1983 the ECGD was covering

179 different schemes in over 40 markets, worth some £102m. A month later, the cover scheme was improved to vary the premium rates depending on an assessment of the host country, helnde cover against loss arising through the political repudiation of a commitment given by the host government, in-crease cover on the revali-ation of fixed assets and in-crease cover for a higher level of carnings retained in the

World Bank is not Itself directly

involved in projects.

Widely held to have the most effective body of knowledge and expertise in the world, the IFC's blessing performs much

the same function for a project in the eyes of lenders as does the DMF for sovereign

The IFC claims that is has

never been defaulted on and operates a cross-default system.

If one chooses to repay the IFC but net other creditors, then you are considered as being in default to the IFC. This is the

nearest the IFC comes to under-

writing a project on behalf of all its creditors. Normally, the IFC acts on

behalf of the project—that is

the customer—and, for example, in the Blue Circle

they clearly see themselves as working to make sure that all the

investors get a fair return although "they would not necessarily put a lending bank

Other international agencies

also involve themselves in pro-ject finance—for example, European Investment Bank.

Asia Development Bank and

Latin American organisation equivalent in these and the problems of Singapore's Private investment Corporation (Picca) serve also as a warning to the less well funded of these group-

As far as the various export credit agencies are concerned, the problem is often that they have no special knowledge that

financing arrangements, a major development has been in both

leasing and in leveraged leasing.
Under a leasing scheme—which
has the advantage of being off
balance sheets—the user rents

Lending climate

uncertain

overseas enterprise.
W. S. Atkins have experienced six months delay in getting claims met, and are also uninappy that the ECGD takes into account fees paidby the host country in its local currency, however worthless such payments may be to the consultant. However, the firm insists on covering all its everseas projects with the ECGD—unless they are financed through the Werld Bank.

World Bank

Atkins' overseas werkload has already declined from 55 per cent of their total to some 40 per cent, and similar reductions are experienced by other major consultants. In addition, they find less and addition, they find less and less work coming through direct commissions, as used to

Consultants in the UK MIRA BARHELEL :

Instead, the client's atti-tude has changed towards tude has changed towards treating the consultant more like a contractor, and demanding competitive hids. Even with shortlists this is an expensive process, and care must be taken to recycle the work invested in abortive hids.

creatingly competitive atmosphere, says Mr Parish, is that better consultants can be driven out by underhidding. However, it is still widely acknowledged that UK consultants have the edge in terms of impartiality of advice, including the choice of contractors. Although British contractors may complain, their professional colleagues insist that they cannot afford to favour sional colleagues insist that they cannot afford to favour their compatriots.

The current exchange rate is also helping our consultants, especially in competition with U.S. engineers. there is general agreement that the pound should not rise higher than El=\$1.5.

The Middle East continues

to feature prominently for work in hand. Mannsell Conwork in name. Manneed Con-sultants and Cairns and Byles, with additional help from Department of Transport specialists, are revolutionising specialists, are revolutio road traffic in Kuwait.

In addition to an extra 200km of motorway and expressway, they ere advising

efrenit television and anto-Scott Wilson Kirkpatrick and Partners have been instrumental in creating a comprehensive tourist map of Bagindai and are involved in a street numbering project for the municipality. The UK

Overseas Development Administration, which finances projects in the Third World, appointed engineers Gremer and Warmer to help Egypt produce its own triple superphosphate from an indigenous raw material to provide low-cost fertiliser and reduce the country's imporfus

In Zimbabwe, the economic consultancy arm of Ove Arup are trying to find the most economically and technically suitable capital development rogramme for the connatural fed beef. In Hong Kong, on the other hand, solld waste disposal is a major problem of the overcrowded commonity and Binnie and Partners are working on a

All these are examples of of Britain's consulting engineers into fields where their expertise may come in very handy when supplies of wary handy water already, major international airports, hridges, dams, mass transit systems and power stations begins to dwindle.

British architects are extending their overseas activi-ties, and more and more are heing rewarded with the Oncen's Award for expert achievement. Among this year's winners are Architects Co-Partnership who have built hospitals in Samii Arabia, Iraq and Trinidad, four technical schools in Oman and exhibition com-plexes in Sudan and Jerdan.

Award for work on university buildings in Bahrain and Guain (including the controversal Sultan Qualous university, where Cementation are the main contractor) and hanks in Hong Kong.

James Cabitt and Partners have been involved in univer-sity projects in Nigeria and Libya. With Ove Army they are designing a high-security printing and minting com-pler for the Central Bank of

competitions included Gollins Melvin Ward (GMW) for a Dubai food market; and Anthony Goss Associates for the University of Technology at Baucht, Nigeria.

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Algeria Brazil Ethiopia Gabon Ghana Iran Liberia Libya Morocco Sierra Leone Syria Togo List of main works recently carried out or under construction in foreign countries:

Three textile plants at Tehessa. Aind Beida and La Meskiana.

Eight cereal silo stations (in Lv.).

Ethiopla

Ethiopia Legadadi Project including concrete dam, rockfill dam, intakes, treatment plant, 22 km watermain, water reservoir; Yemaskai Tarara residential compound of six four-storey

buildings:
Several buildings (Kennedy Memorial Library, mineral water bottling plant, etc.).

Gabon

Owendo timber port at Libreville; Law Courts Building at Francoville; Kelle Lekoni Roed;

Kelle Lekoni Road: Railway station, railwaymen village and school centre in Transgabonaise Railway (in association with other companies); Watermain and reservoir at Mounana and M'Vengué.

Ghana Cencrete and earth dam at Weija;

Libya

Airport at Sarir for Civil Avaction Department (in Ly.):
Residential compound at El Beida consisting of 18 five-storey buildings; . sewerage network: 50 km of asbestos cement pipes Benghasi sewerage natural and to 1,200 mm diam.

up to 1,200 mm diam.

Logistical base ut jalo for AGIP Oil Fields Department.

Water treatment plant at Bou - Regreg - Rabat.

Sierra Leone

Design and construction of the Bumbuna Hydroelectric Project. List of highly specialised works carried out or under construction New Headquarters of the Post and Telecommunications
 Ministry in Rome, E.U.R.:

Restructuring and reinstatement works of historical buildings in the centre of Rome; Acerenza Dam in Basificata;

Genzano Dam in Basilicata; industrial development area at Latina, Rome:

Infrastructures and poliuted water treatment plant in Catering and facilities for Fiumicino International Airport.

Rome;
Treatment plant and collector network in the Salerno area for pollution control in the Gulf of Naples (in J.v.); Various buildings for dwelling, schools and hospitals.

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Months of Car the lost conserved good green of the same motto for survival

"So our philosophy now is

There are two key elements in Tarmac's new approach, Mr Woodman explained. The first is to aim for developing comtries such as Algeria, Gabon, Thailand, Malaysia and Indonesia where hereages they are

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their expertise my to major forernational bridges, dams, made systems and power a begins to dwindle British architects ; tending their oreng ties, and more and a being rewarded to Queen's Award for achievement. Ana year's winners are in Co-Parinership who built hospitals in Arabia. Iraq and Is four technical six piezes in Sudan atil

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Wincers of internompetitions included Meirie Ward 1044 Dahai food mule Antheny Jose Amee the University of less at Baucht Niceria

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Semperate the service of the second s (\$60.3m). Memoria Landi List Ampath and Parca at Septiment and Mississis

Specialised approach to markets "DIVERSIFY and specialise" could be embiazoned as the inlong-term finance for them.

Another new market Balfour director of Costain Interplated that it is a slow process. "You don't go in this week and get a job the next," he said. "You have to visit, make connections and find out what the country needs and can't get money for. Then when you've identified it, ton Boston to Washing-ton when you've identified it, ton both the country ton when you've identified it, ton both ton bo ternational contractors' new it is a slow process. "You

Take Tarmac, for example, a job the next," he said. "You railway electrification. which has had to change its have to visit, make connections markets and philosophy radically in the face of declining workloads in the UK and over-the when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it, line from Boston to Visit when you've identified it. Then when you've identified it, you've got to put in a proposal and now bopes to benefit and get the money for it, and from the "great interest in the construction business you haven't got that, and if you suggest something you're not the oil-rich to concentrate on the oil-rich countries just like every other contractor in the world. That there were haven to compensate the money for it, and now bopes to benefit ton, and now bopes to benefit to make the money for it, and now bopes to benefit ton, and now bopes to benefit ton the "great interest in the electrifying railways in the lectrifying railways in the contractor in the world benefit from our two years of groundwork."

Contractors

Then when you've identified it, you've got to put in a proposal ton, and now bopes to benefit ton, and now bopes to benefit to construction business you here 'too that, and if you suggest something you're not the only person who can do it."

One way Costain is living with the recession is "by learning to cut our cloth to fit the situation could for example, do what we

contractor in the world. That
meant there were huge tender
lists with 50 or 60 companies
bidding for every project—

years or groundwork."

The issues are somewhat different for Balfour Beatty. "New
markets? There's not many new
countries left for us because which put our chance of getting the work down to 50 or 60 to one and meant we could only get the job on price.

Balfour Beatty was one of the "So our philosophy now is to forget the oil-rich countries and to look at the under-developed and developing countries where we can ensure finding before we get the work and provide them with a total design, construct and finance package."

Balfour Beatty was one of the first British companies to spot the potential of Indonesia as a new market. It has been there for nine years and is working on a £240m contract to build a hydro electric dam, which has required cliff-hanging renegotiation as the government has run linto cash problems.

into cash problems.

The company also spotted the Philippines as a potential new market, and is now working there on contracts for power stations worth £40m.

Thailand, Malaysia and Indonesia where, because they are regarded as politically sound and as having potential mineral wealth, the British Government's Export Credit Guarantee Department and the banks will provide long-term loans.

The second is for the company itself to identify and suggest major projects which need to be done and to arrange the stations worth £40m.

But getting into the Philippines was tongh for a British company because the market was dominated by the Americans and Japanese," said Mr Holland. "We had tendered with no success and were told the only way in was to station people there." They eventually got the £40m work after investing £250,000 over more than two years.

INTERNATIONAL CONSTRUCTION III

Contractors

JOAN GRIAY

John Laing International, whose activities have so far centred on the Middle East, is centred on the Middle East, is also involved in a search for new markets. "We're looking everywhere and trying to narrow it down to places where there is growth and opportunity," said Mr John Armitt, assistant managing director.

"We're not yet decided where we're going to make a concentrated effort and for now are just trying harder in our conventional Middla East market. We're also looking at ways

wentional Middla East market.
We're also looking at ways
other than our traditional ones
of ohtaining work, such as
taking on more management contracts overseas, increasing joint ventures and use of finan-

cial packages."

John Laing does not believe in trying to create projects by identifying infrastructure needs and suggesting bow they could be met, said Mr Armitt. Costain is also wary of this approach to finding new work.

Mr Fred Tarrant, managing

The company has already done this on contracts to hulld a dam in Sri Lanka and a bank in Found

approach.
"We encouraged our busi-

Dubai and Oman.

nesses to develop their own high profiles, be they Cunard, the Ritz or top table construction companies such as Cementation, after an earlier smelter it built Redpath Dorman Long, Trollope and Colls or Cleveland Bridge,"
explained Mr Bill Francis, Trafalgar House director.

Mr Candlisb explained, "not

cut our cloth to fit the situation we're in," said Mr Tarrant. The company is looking at its overheads carefully and has, for quarters building in Hong Kong, quarters building in Hong Kong, example, moved its head-quarters from London to Woking and cut its administra-tive staff by 5 per rent. It is also looking carefully at the cost-effectiveness of its area offices in Bahrain, Abu Dhahi, where we have got a £110m con-tract for supplying steel to toler-ances we are used to in the North Sea."

Mr Francis also emphasises the importance of providing a complete specialised service in getting work overseas. "If you put up a hotel, such as the Hilton which we did in Bahrain you even supply the napkins if "We are also trying to be more competitive, to improve our methods of hidding, to that's what the client wants," he

obtain good prices from sup-pliers, to widen the scope of where we go, to see if we can do jobs more efficiently and cut Wimpey bas also decided to move to the U.S.—and to take advantage of its skills as a lead-

the cost by reducing the number of men, and to use new methods of planning and progressing," said Mr Tarrant. Wimpey has bought bousebullding companies in Texas and in California. It plans to be building 2,000 houses a year in the U.S. by 1935, and hopes that Costain too is trying to make increased use of the expertise it has huit up overseas in project management. "Rather than fixing reinforcements and this will help compensate for the downturn Mr Tom Candlish, pouring concrete we could, for the managing director, sees example, put management into coming in the UK housing

example, put management into a local company in a country where our management skills can complement their local sifving in response to the recession is by turning to multidisciplinary industrial projects which draw on the group's elec-trical and mechanical engineering as well as civil engineering

Trafalgar House has kept a skills.

Trafalgar House has kept a skills.

"We are offering a turnkey "We are offering a turnkey low profile as a construction "We are offering a turnkey group until now, when the recession has made it change its forward financial packages to make it attractive to the client," said Mr McDowall,

"But now we've put all the because there is a resurgence in civil engineering companies together to market as Trafalgar House Construction as part of sources of power."

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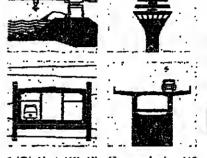


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Public spending cuts bring need to diversify

THE COLLAPSE late last year about the collapse of IBH is \$3m to acquire the licence to of IBH Holdings, the large that none of its major operate the Scottish plant, West German construction tions have been rescued quickly. The other IBH subsidiaries equipment group, will provide By mid-February, three and some pelief from the excessive half months after the group competition prevailing in most collapsed, only two of the sub-

construction equipment has dropped by 30 to 50 per cent since 1979. For example, the number of crawler tractors sold in the U.S., fell from nearly 20,000 units in 1979 to 8,000 in 1982. In the UK, backhoe loader sales tumbled from about 6,000 & year to 2,500 over the same period. Not surprisingly, the main

construction equipment manu-facturers have suffered sharp declines in output and financial performance. Caterpillar Tractor of the U.S., the industry leader, went into loss in 1982 for the first time in 50 years, for the first time in 50 years, and had another loss last year. J. I. Case of the U.S. and Fiat-Allis of Italy, the third and fourth largest competitors, have also been suffering big losses. Only Komatsu of Japan, the fast growing number two in the industry, has maintained a reasonable record through the recession, but its performance too began to flag last year. Net profits in the first half were down 14 per cent to Y14.75bn (\$60.8m).

Still, it and J. C. Bamford Excavators of Britain are prob-

conditions, it was surprising that the industry went so long without a major shakeout. It has now become clear that IBH only survived as long as it did because of some irregular banking and accounting practices.

From the industry's point of view, the most significant thing

sectors of this deeply depressed industry. But most construction equipment: manufacturers capect a further lengthy period of poor trading conditions and restructuring of manufacturing capacity.

The industry depends to a very large extent on public sector capital apending. Most gov. Rnox, the UK manufacturer of arments are still trying to rein in spending, and capital projects are usually the first and enduring victims of their construction equipment has constructed beautiful to the construction equipment has constructed beautiful to the construction equipment has constructed and president of the European Committee for Civil Engineering that the manufacturer of large off-road trucks, wheeled loaders with manufactural consciences, the Maco Meudon compressor maker and Deruppe, compressor maker and Der

and scrapers. Terex, with manufacturing operations in the U.S., Scotland and Brazil, accounted for about 40 per cent of total IBH turnover of DM 2bn.

Terex was acquired by IBH from General Motors of the U.S. in 1980 and GM became one of the largest shareholders in IBH with a 19.6 per cent stake, GM was also a major creditor and

Construction equipment

IAN RODGER

has been active in efforts to try and rescue the Terex businesses since the IBH collapse. since the IBH collapse.

The U.S. Threx company is operating under Chapter 11 of the U.S. bankruptcy laws, the Brazilian subsidiary is still trading normally and the Scottish subsidiary went into receivership in mid-November.

ably the only two major shakeout. It major shakeout it maj

appear to have fewer prospects of survival than Terex. Hymac,

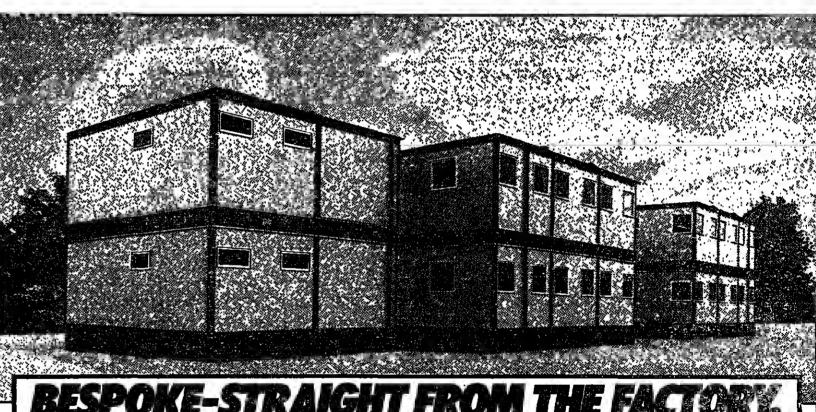
the UK excavator manufacturer,

changes in Europe, but expects they will happen only gradually. The Europeans are beginning to worry about the rise of Japanese competition in their home markets. So far, the advance of Komatsu, Hitachi and others has been felt mainly in Europe's traditional export Middle East. But in the past three or four

years, the Japanese have cap-tured more than a quarter of the British market for hydraulic excavators, one of the few pro-ducts for which demand has continued to grow through the recession.
The British manufacturers

have been attempting to fend off the Japanese advance and have enlisted the support of CECEE. In the past few months. there has been evidence that the Japanese have acknowledged the problems that they have helped create, notably a 30 per cent fall in prices in the UK in the past two years.
Whatever happens, Mr
Johanson believes that the in-

dustry must avoid promoting protectionist measures. The



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building budget go further. Each unit is clad in Colorcoat steel and delivered to site complete. Speedy to install Lincpac will grow with you. It links side to side and one end to one end and can be built in two storeys with an internal staircase, adaptable Lincoac can even be relocated. The picture above shows a Lincpac building

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INTERNATIONAL CONSTRUCTION IV

Computers cutting time and costs

If Cementation International ings in the region of 5-10 per had not won the now concent compared with steel frame troversial £300m. Oman with concrete floors and in the iniversity contract there is no doubt in the mind of Barry Myers, the managing director, that the work would have gone to a non-UK contractor. That would have been unfair, he adds, because Cementation is delivering a fast-track, four-year programme which he believes no one else could

involves the construction of a university for 3,000 students, complete with all the auxiliary complete with all the auxiliary buildings and residences, on a desert site. Time is an important factor, and Cementation is cutting time in two different ways.

One is related to how the contract is managed. The contract is managed. The contractor is fully in charge, directly employing the architects and specialist consultants. The drawings are computerised, both the architectural

ised, both the architectural working drawings and the elecworking drawings and the elec-trical and mechanical diagrams—a growing trend among many consultants as well. Another important management aid is stock computerisation, vital with over 12,000 items in store.

The second time-saving approach on the Oman contract is the casting of complete room units in tunnel forms or table forms, which allows for a 28-hour turnover of units for either low or high-rise con-struction. The method is not new, but the techniques have been refined and the steel shottering allows for in-situ casting of arches as well as the more ordinary square shapes.

Another refinement of existing technology allows for the easing of larger units and beams which saves time and gives more design flexibility.

of solar energy, which may have been thought a natural in such a warm and sunny climate, has been rejected as not being cost-effective. The combination of improved,

time - saving construction methods and the use of com-puters in design and draughting in what remains a very conven. IT IS tempting to draw now making its money in the tional and traditional industry, parallels between the cement U.S., having bought up plant There are certainly two technoand steel industries in the from struggling U.S. coment logical revolutions going on, European Community. The promakers in the late 70s. The in what remains a very conven-

to place the slabs which are too beavy, to be manhandled; in

STRADO has found time sav- cement producers, Lafarge is

region of 20 per cent compared with in-situ concrete construc-tion. Cost savings were made accordingly.

The future of steel-frama con

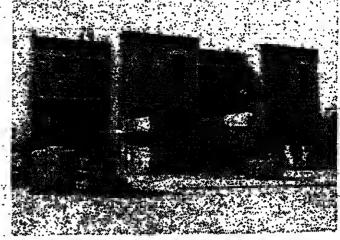
struction is being closely linked with the growth of computer design and detailing, coupled with automated fabrication processes. This will make stemembers both cheaper and more accurately engineered. When construction on site be-comes little more than assembling prefabricated components together, says CONSTRADO, then low-cost buildings will be produced which are efficient, pleasant to look at and very cost-effective.

Technology

MIRA BAR-HILLEL

small scale and mainly for the a small scale and mainly for the UK market, is the lightweight, steel-framed, highly insulated Yorkon building. This is a permanent structure, made by a subsidiary of Portakabin, and offering very competitive building costs compared with traditional construction.

The savings are most pro-nounced in the area of com-puter suites, of which Yorkon have already supplied over 18.



convert an existing building

Many of Britain's top contrac-tors have substantial invest-ments in research and developments in research and develop-ment. Wimpey have built up their isboratory at Hayes into a \$30m business, and several of its specialist activities have already been "gushed out of the nursery" to stand up as commercial operations. For example, Wimped is now a mar-

Fabricators, jointly owned by Hagmand Fabricators, jointly owned by Wimpey. It is expected to be the forerunner of many deepwater applications. The company also leads the world in designing and making connections. tions in offshore structures with coment grout, sided by tiny nuclear sensors to detect when the liquid grout has reached its

The company is among the Their cost per square metre is quoted at between £280 and £580, depending on specification, whereas traditional tender prices are in the £780-6840 range. Yorkon say it is cheaper to buy one of their suites than the first tender to buy one of their suites than the first tender to buy one of their suites than the first tender to buy one of their suites than the first tender to buy one of their suites than the first tender to buy one of their suites than the first tender to buy one of their suites than the first tender to be lieving firmly that in five more and believing firmly that in five more and believing firmly that in five more computer technology. It practice not involved in computer technology. It practice not involved in computer technology. The first technology is the first technology to the first technology is the first technology. The first technology is the first technology. The first technology is the first technology is the first technology. The first technology is the first technology is the first technology in the first technology is the first technology. The first technology is the first technology is the first technology in the first technology is the first technology. The first technology is the first technology is the first technology is the first technology. The first technology is the first technology is the first technology is the first technology. The first technology is the first technology is the first technology is the first technology is the first technology. The first technology is the first technology is the first technology is the first technology. The first technology is the first technology is the first technology is the first technology is the first technology. The first technology is the first technology is the first technology is the first technology is the first technology. The first technology is the first technology is the first technology

ment which can look into a wall cavity without damaging it. Its infra-red thermography technique can locate some building so that they can be

Consulting engineers W. S. Atkins have 25 years experience of computers, 18 of them the nursery" to stand up as in-house. They are well aware of the rapid developments in the past few years in the use of the rapid developments in the past few years in the use of computers, which for most veying and navigation.

The hull of the world's first tension leg offshore platform is being completed by Highland Enduring and calculating applications. Not any more.

Atkins have two computer-aided design (CAD) systems-one in two dimensions, the other in three. On a recent project for a large car park in Kuwait, out of some 1,200 draw ings required, no fewer than 700 were done completely by computer. The time saved was

Atkins are not alone in believing firmly that in five

EEC producers struggling with over-capacity

crete slab, the crane is required decline, or at least stagnating.

The similarities end there, however. One of the most forceaddition, a reinforced screed ful recent illustrations of this has to be laid on top of the came in February when Lafarge table to get a level floor.

Coppée, the biggest coment slabs to get a level floor.

Coppée, the biggest content slabs to get a level floor.

In contrast, a profiled steel of the biggest in the world, deck can be lifted as a bundle, falled even to mention the state of its domestic market when it appealed into position, freeing the crane for other work. A announced consolidated 1983 survey of construction times profits of \$26m to \$29.6m, up carried out by the construction 220 per cent on 1982.

Tional steel association CON-

logical revolutions going on, but there is, for example, a growing realisation of the potential for speed in using composite profiled steel decks and composite beams.

The speed of construction of a steel framed building is governed by the number of cranes that can operate simultaneously and the number of components to be lifted and placed.

If the floor is a precast construction of the cement industry is structured by the number of components to be lifted and placed.

Like steel, the cement industry is structured to over industry, has found the means to list survival in the saturated Community markets not simply through closing old plant but shoulding even higger works as improvements in manufacturing methods and transport have made nonsense of building even higger works. In the UK was around a simprovement in manufacturing methods and transport have made nonsense of building even higger works, in the UK was around election of a steel, demand for cement seems to be in terminal ing a string of small plants as french prices have risen only through closing old plant but specified to over industry, has found the means to list survival in the saturated Community markets not simply through closing old plant but specified to over industry has found the means to list survival in the saturated Community markets not simply prices public, but informat respect to the cement industry has found the means to list survival in the saturated Community markets not simply prices public, but informat respect to the cement industry has found the means to list survival in the saturated Community markets not simply prices public, but informat respect to the cement industry has found the means to list survival in the saturated Community markets not simply prices public, but informat respect to the cement industry.

The cement makers the cement industry has found the means to list survival in the saturated Community markets not simply prices public, but informat respect to the cement industry.

The cement makers the cement industry is close as possible to particular markets. Lafarge is unlikely to lose much weight in the mar-ket by carrying out planned closures of five of its 19 French plants.

> Even so, the 12.04 per cent fail in estimated EEC cement consumption between 1980 and the end of last year must worry the worst decline of the EEC Ten, with consumption falling nearly 25 per cent to 4.2m tonnes of cement last year. The Netherlands cement market has also dipped sharply, by 22 per cent to 4.6m tonnes.

> French consumption has fallen 18.6 per cent from 28m tonnes in 1980 while the West German market is nearly 17 per cent smaller than the 32.5m tonnes recorded at the beginning of

Falls of 6 per cent (to 13m tomes last year) in Buitain and 7 per cent (to around 6m tonnes) in Greece look positively encouraging by comparison. But the British market is jeasously guarded by the time main producers, Blue Circle, Rugby Portland and FRZ. Cement and imports have long taken, less than 1 per cent of the market, compared with about 5 per cent in West Germany and between 2 and 3 per cent in France.

The Italian cement market, the biggest in the Community, has proved to be altogether different. Between 1973 and 1982, Italy was the only European country to record a rise in per capita cement use, which moved from 648 kgs to 729 kgs per perion nearly 729 kgs per person—nearly double the French and West. German figures.—Between 1980 and 1983, total consumption has fallen only 1.9 per cent to 40.5m tomes and was actually rising until the end of 1981.

The Italian producers, led by Italcementi, with some 36 per cent of the market and Unicem, with 15 per cent, give over just 0.4 per cent of their market to only high part charges and diffi-culties in transporting bulk cement to the parts, has pre-vented them from exporting more aggresively.

Exports reached a peak 1.7m formes in 1979 but quickly simmed to 623,000 tonnes in 1982—some 1.5 per cent of total

The adaptation to broadly lower demand throughout the Community has not come cheap. While building modern, efficient plant and scrapping obsolete and excess capacity may be the most obvious first step in deal- November 1983 edition.

has been to keep the market stable at the same time. All Ten producing co

up 20 per cent from 1980. French prices have risen only 10 per cent, to around £24.60. In Germany prices had moved nearly 31 per cent to £28 a loune and in Italy by 32 per cent to £26 a toppe

Those list prices disguise two important facts costs have grown to such an extent that

Cement

PETER BRUCE

some prices being achieved (as opposed to being listed) might now be lower in real terms than now be lower in real terms than in 1980 and in order to meet the challenge from third country imports substantial discounts are being offered to customers throughout all but the most inaccessible EEC markets markets.

West German prices, for instance, rose nearly 6 per cent in January 1983, but there is now a real danger, industry observers believe, that West German producers may have to retreat so as to compete with cheap imports from East Ger-many and Poland. The politics of detente between the two Germanies appear to have opened the way for East Ger-man cement to take an ever-increasing share of the West German market even that market is shrinking.

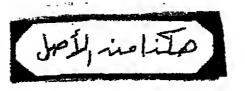
There are already signs of There are already signs of this happening in Northern Ireland. White Mountain Quarries, a Belfast-based readynized concrete contractor, has been importing surplus West German cement into the province which was, until a year ago, considered the preserve of Blue Circle. White Mountain took about 25 per cent of that market in the first year, forcing Blue Circle into making a series of price cuts and threatening of price cuts and threatening the future of at least one Blue

Circle plant in the province.
White Mountain is now threatening in begin importing the same cement right into the heart of Blue Circle's UK domain—London—and fear of that move was almost certainly behind the hig three UK producers' decision not to raise prices last December.

Whether the EEC producers can hold the ring against imports, and against the danger imports, and against the danger of turning on each other, remains to be seen.

* Converted from local currences at relevant 1980 and 1983 dates.

Note: See also West European



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Total Eco

Homebuilding lifts sector

NORTH AMERICA

THE U.S. construction industry, a key segment of the national economy as it extends its recovery from the post-1979 recession, has opened the year strongly, with every prospect of Improving on the record performance achieved in 1983. The keynote continues to be

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the atrong expansion in house-building, which turned sharply higher last year as mortgage rates fell. The latest figures for housing starts show that the January total was the bighest since the construction boom of 1978.

There is a cloud on the horizon in the form of renewed fears that interest rates may be about to rise once again, but these doubts have yet to penetrate to the construction

The rebound in homebuilding played a dominant role in last year's recovery in the construction: markets, which had been severely restrained by the high interest rates prevailing between 1980 and the first half

Last year's peak in new construction starts of \$192.8bn was 23 per cent up on 1982. The bulk of the gain came from

By contrast, non-residential over the prospects for the credit building starts—offices and the policies of the Federal Reserve like—rose by only 4 per cent to \$61.9bn, while non-building construction starts, representing the much-needed extension and the much-needed extension and rebuilding of the battered roads and bridges of the major cities, put on only i per cent over the year to total \$57.7m.

The progress of the industry—both residential—has been difficult to account the progress of the progress of the industry—both residential—has been difficult to account the page that the p

to estimate over the past two months because of the severe cold and winter weather in the central states of the U.S.

Overall activity was down in December, with the total of new construction starts dipping by 7 per cent below the comparable month.

aonth.
The fall in residential building was modest, only 2 per cent lower than in December 1982. Fears that this might indicate a general slowdown seem to have been put at rest by the sparkling totals announced for

Housing starts leapt by 15 per cent to an annual rate of 1.9m units in January. The sub-stantial gain is central, not only to prospects for the construc tion industry, but also to those

IN SHARP CONTRAST with to 1983."

Their domestic workload is picking up, and they are also cheerful about their overseas

The message from Bechtel president Mr Alden P. Yates, is that the company has not experienced any downturn in its Middle East business and remains optimistic. Fluor Cor-poration president, David S. Tappen was also confident.

quarter of fiscal 1984 compared fuzzy on that point."

of this upturn is based on domestic as compared to nonlast five years, worth a total of

"We have seen our workload increase in three consecutive quarters, signalling a progressive recovery from the prolonged industry wide recession," be said. "The man-hours bookings will lag the recovery. \$37bn. he said. The man-hours cookings will lag the recovery, booked by the company's engineering, and construction it be before we get a real updivision increased by more turn in the economy. My crysthan 140 per cent in the first tal ball, like everyone else's, is

World markets brighten the experience of European Fluor won contracts worth companies, American companies more than \$15n in the first seem to be faring better in world markets.

Fluor won contracts worth more than \$15n in the first quarter of fiscal 1984, compared to \$1.2bn for the whole of fiscal 1983, and though the company does not disclose how much domestic work, it says that it is today "tracking 18 megapro-jects in the Middle East," the company's most important over-seas market. These are worth a total of \$38hn, compared to only 20 megaprojects during tha

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policies of the Federal Reserve Board and thus for the outlook for interest rates which are crucial for the housing industry.

The recovery in non-residential building is still open to conjecture. Contracts for this sector fell by 8 per cent last month, with a sharp drop in office building "tipping the balance," according to the F. W. Dodge Division of McGraw Hill Information Systems which tracks the industry. The downturn reflects both national and regional trends. regional trends.

Aided by boom

Economic developments swung in favour of the northeastern states in 1983, at least as far as the construction insaw a continued boom in the financial services industries which in turn stimuleted rebuilding and renovation of busi-

ness areas.
Tha New York financial district of Downtown Manhattan was expensively refurbished, encouraged by boom trading conditions for the stock markets and international banking sec-

The Midwest, by contrast, bas suffered severely as the farming and heavy construction indus-tries laid off staff and cut back n capital expenditure. Contract value in the Mid-

vest showed a 10 per cent gain last year, but this must be measured against the 32 per cent gain for the north-eastern states and the 23 per cent jump in the national everage.

public spending associated with the Reagan Administration has tended to focus on welfare spending rather than on investment in city infrastructures.

New York, having successfully restored diself to financial probity, has joined the ranks of major cities raising funds in the capital markets for extensive rebuilding of its decaying roads

This concern for state infrastructures was reflected in a 24 per cent increase last year in spending on highways and or involving multilateral lend-bridges. The total benefited signing agencies. nificantly, although as yet in Brazil the construction nificantly, although as yet unquantifiably, from the five cents per gallon fuel tax levied for the purpose since April and prospects for the next

In addition, some \$5bn of Federal highway disbursements to the states was beld back when Congress adjourned, but will be brought forward this year. This holdback is blamed for much of downturn in December in highway construction.

Not even the most naive observers expects such direct Federal input to the expenditures of the states to be delayed in presidential election year, so—no matter what the Federal Reserve may think of the Federal budget deficit, highway spending seems likely to improve this year.

The fortunes of the construcyear will, in fact, mirror the fortunes of the U.S. economy even more closely than usual.

Large-scale projects are scarce

WHILE the Middle East and South-East Asia continue to see high levels of construction activity, Africa (particularly Black Africa) has to struggle to maintain existing levels of work. The global recession is precipltating a decline in economic growth in relation to the rest growth in relation to the rest of the world and also in absolute terms. Export earnings are down and foreign indebtedness is high—in most instances above levels that can be serviced without recourse to debt rescheduling.

Increased borrowing from national joint ventures which commercial banks is unlikely carry donor government supeven concessionary finance port.
from agencies such as the World Bank and affiliates, tha tract placed with Sweden's World Bank and affiliates, the tract placed with Sweden's European Development Fund, Skansa and Canada's Founda-and bileteral credit institutions. They are now by far the most important sources of feature and wall fall in 1984, as

three years. According to Construction Data Research Services, Africa (including North Africa) accounts for about 7 per cent world construction activity. The biggest construction markets in sub-Sahara Africa are South Africa, Nigeria, the Ivery Coast, Kenya, and the Cameroon. South Africa's stagnant economy now shows signs of retrieving after three years in of reviving after three years in the doldrums.

Housing starts are climbing and a fuel levy will finance new toll roads. Energy-related schemes like South Africa's first Housing starts are climbing and a fuel levy will finance new toll reads. Energy-related schemes like South Africa's first nuclear power station at Koelegan power station power station at Koelegan power station at Koelegan power station power statio

berg, north of Cape Town, will be given priority.

The overall picture in Black Africa is characterised by the absence of large-scale prestige projects and a concentration on the road-building, hydroelectricity, water, irrigation, and offshore sectors. The need the road-sectors will be read to the control of the road to reduce imports will en-courage more industrial build-

ing. European contractors had 58 per cent of the African construc-tion projects in 1982. Hitherto, British, French, German and Italian companies had almost free rein in a market influenced by ex-colonial links. Today, the

continent is wide open,
The traditionally British markets in Nigerie and East Africa are being challenged by French companies from their bases in French West Africa. Some 33 per cent of French African con-tracts in 1982, valued at about £1.5bn, came from Englishspeaking countries. British companies increased their share of work in Africa in 1983 to about £800m (30 per cent of their total overseas orders) but yet to make the same

impact in Francophone coun-

British consultants have done better in water supply and road building work. French successes may well be due to their specialised in-house design work for turnkey projects, thus bythe consulting engineer.

More contractors see this approach as a way of cutting costs and becoming more competitive, and the competitive edge may well go to companies willing to enter toto multi-

hydro-electric project in Kenya The consortium also includes for the later stages—German and Yugoslav companies. Parts they have done for the past of the contract will be financed by the Swedish and Canadian

Closer look

Inevitably, the Jepanese are taking a closer look at Africa, Jepan still classifies itself as a "developing country" for construction exports. Japanese firms are working on a £198m power station in Nigeria, while lebitarius liverias are looked to the lebitarius liverias liverias looked to the lebitarius liverias live Ishikawajimi-Harima Industries (IHI), main contractor for the

ture in Nigeria in 1978 and is the first Japanese concern to invest in Africa. It now has three contracts there. With the fall-off in Middle East contracts, South Korea's formidable Hyundai Group, with its turnkey skills in desalination and petrochemicas work, is also considering further work in Africa. The high skill of Italian contracting in Africa is led by such companies as Impregilo, Cogefar and Impresit. The last two recently received betters of intent to build roads in the Cameroon worth £65 m.

British experience in water works projects has helped British fixms to win some useful contracts. Costain. (West contracts. Costain (West Africa) is now working on o £100m water supply scheme in Nigeria's Oyo State, while Biwater Shellabear Group are well into a £141m turnkey pro-

ject to provide water for 500,000 people in 18 communities. Alan Peterson

THE DRAMATIC economic recession throughout Latin America in the past year baa inevitably meant a substantial decline in both public and private sector construction activity with little prospect in the short- to medium-term of a ecovery. In virtually every country of

the region a combination of austerity measures, cuts in de velopment programmes, reduced currency and stiff import con-trols have ensured that both domestic industries and foreign construction companies suppliers have suffered accord-

ingly.

The main hope for foreign suppliers of construction materials, equipment and services bas been projects coming under bileteral aid programmes

couple of years remain very

All the sectorial indicators make gloomy reading. Last year 75 per cent of the businesses in at least 40 per cent idle capa-city and for 58 per cent of the companies the level of idle capacity was at least 50 per cent. Cement production for this sector fell 19 per cent from lts 1982 level.

Civil construction groups do not expect demand to pick up before 1985 at the earliest because of the enormous backlog of completed residences which must first be sold.

The Brazilian beavy construction sector's performance bas been even more disappointing. As this sector is heavily dependent on public works it was badly hit by the 15 per cent cut in real terms in invest-Terry Byland ments by state-owned com**Recession hits**

state schemes severity of the crisis last year was the completion of several big projects such as the Itaipu and Tucurui hydro schemes and only slight growth in 1984." it the Tubarao steel mills, without a corresponding start being made on new projects.

Lin read terms the former is likely to grow by 3 per cent while the latter could show

With prospects so grim, the only way for construction com-panies to survive is through an increase in exports especi-ally to other developing countries.

Mexican decline In Mexico, the construction

industry bas gone from boom to bust in just 16 months. The sharp decline in the industry's fortunes which began in the middle of 1982 went into overdrive following Mexico's financial collapse later that year. tial collapse later that year.

The new administration of President Miguel de la Madrid, who assumed office in December 1982, was forced to make drastic cuts in public spending as petroleum revenues plum-meted.

Preliminary estimates for 1983 for instance predict revenues to be worth only 27 per cent of those in 1981, represent-

for 11 years.
A recent report by the economic studies department at Banco Nacional de Mexico (Banamex) estimates that con-struction activity will show slight growth this year but that recovery to the levels estab-lished in 1981 is most unlikely till after 1985. Banamex points out that the

a 4.5 per cent fall in the economy's overall gdp. In constant Bolivars, the value of construction work last year was Bolivars 3.9bn, off 9 per cent from the previous year.

dustry are the levels of private and public sector investment. "Taken together these will show

of unused installed capacity in

Judging by government com-

mitments most of the growth is likely to come from infrastruc-tural projects such as road and

rail communication, low income housing and projects for gener-

ating electricity. There might also be some increased activity

in state enterprises that under-spent their 1983 budget. State

steel and fertiliser firms fall

into this category.

Banamex notes that the construction materiala industry is

likely to grow faster than con-

struction itself. This is because

there are plans to boost exports

(cement manufacturers claim they will double their overseas sales this year) and industry analysis expect a big growth in

the trend to do-it-yourself build-

ing by would-be home owners, small businessmen and peasant

farmers.
Venezuela's construction in-

dustry bas been in trouble for

the past five years and suffered another bad year in 1963. Tha outlook for 1984 remains

Figures released recently by

Chamber, a private sector group, showed that the indus-try's gross domestic product fell

last year by 8 per cent against

Venezuelan Construction

uncertain.

Private sector housing starts for 1983 (public sector not yet available) were 11,000, down from 35,000 in 1982 and 30,000 in 1981. The national housing deficit is estimated et about 800,000 to 1m units. Meanwhile, unemployment, estimated to be 15 per cent nationwide stands

at just under 50 per cent in

construction industry,

according to union estimates.

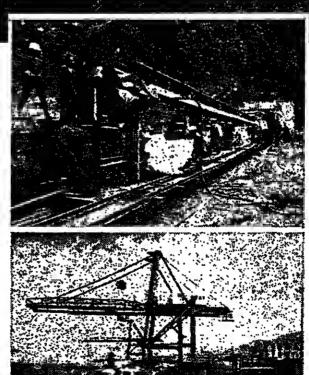
One of the few rays of light on the Latin American construction horizon is Colombia. Construction was one of the country's growth sectors last year with the industry's share of gross national product growing by 3.1 per cent from the previous year accounting for \$1.724bn of the total \$17.716bn. In proportion to its resources Colombia has the largest investment programme in Latin America and, unlike many of its neighbours, will be able to sustain this programme in the coming years. During the free spending and free borrowing 70s Colombia adopted a conservative approach to its economic policies always keeping growth within manageable

Colombia's heaviest construction spending is in electrical infrastructure and 18 out of 76 projects planned under the country's 1983-86 Development Plan are in this sector.

The second largest area of expense is related to the \$3.2bn El Cerrejon coal project. Some 50 per cent of that sum is being dedicated to the building of port, railroad, mining and bousing facilities.

Philip Marvin Latin American Markets





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Caribbean, the Middle East, the Far East and USA, Kier International has a team of experienced staff who can respond to the particular demands of your project,

Above: **Heng Kong**. Tunnel construction for the Hong Kong Mass Transit Railway Corporation.

Above: Papua New Guinea. Construction of the pensiock tunner for the Warangoi Hydro-electric Scheme. Left: Trinidad. Oversees container terminal Port of Spain.

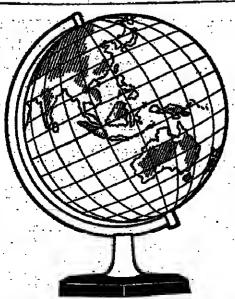
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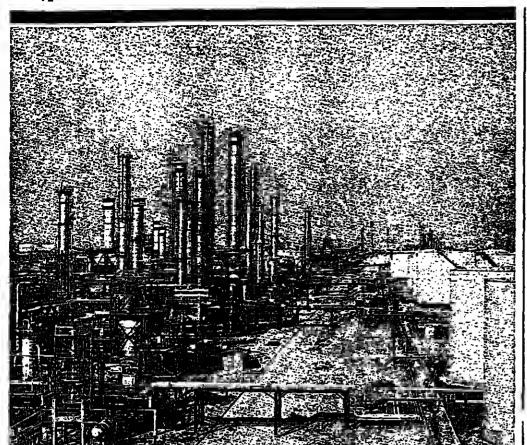


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EUROPE

Barriers remain The exceptions which prove the rule de, however, also exist. Press-O'Nell, a British-

European Community include the creation of a "common market" for all sectors of inmarket. You all sectors of in-dustry, the special nature of construction does not lend itself easily to this, according to Mr Derek Ganlier, director general of the Federation of Civil Engineering Con-tractors. There are two substantive reasons for this. Each of the

ALTHOUGH THE aims of the

member states has a construc memoer states has a construc-tion industry and construc-tion professionals which are long-established, competent and highly competitive. In addition, each country has different contractual prac-tices, construction codes and building rules and regulations and even simple language barriers do exist.
The constraints, naturally,

The constraints, naturally, work both ways: one does not see many French er German contractors on UK sites either. This is perhaps the reason why the present situation is accepted rather stoically by the contractors themselves. Attempts to change it and concern about it being expressed more by the European Commission than by the supposed "victims" of the failure to pool construction resources Europe-wide.

Viscount Davisnon is az viscount fraviguou is au-happy that the Community-wide advertising of contracts through the Official Journal, which was intended to open the barrier, has falled to make any inreads into the staunchly nationalistic nature of awarding contracts. The system requires that all contracts worth more than a million European currency units (Ecus) which is about

£650,000, be so advertised.

Mr Gaulter maintains that the UK has a good track record in complying with this requirement, but his federa-tion would like to see the limit raised substantially. He also feels that some

members states avoid adver-tising by breaking down single projects inte separate contracts, so that each ends up being worth less than the qualifying minimum.

Another measure intended to remeve barriers is the pro-motion of Euro-codes on construction practice. Progress on these, some of which cover on these, some of which cover reinforced concrete structures, and carthquake protection, has been described by Mr Gaulter as "painfully slow," and there is grave doubt whether they will ever emerge from the draft stage.

Irish joint venture, has been involved in the £630m alumina extraction plant in the Shannon estuary under a contract worth £70m for contract worth £70m for mechanical plant.
Laing SA are building a £51m borstal for 456 young offenders in Spain. Costain Civil Engineering have won a £3m contract to design and construct an oil jetty in Greece

is not fertile ground. Again, there are the exceptions, among them GCB international Design. Group which has recently completed the removation and returbishment of Don. Carlos Hotel in Marbella and a feasibility study for a large a feasibility study for a large scale tourist development in Lanarote which it did in conjunction with Ove Arup. The scene is very different for chartered surveyors, but their European activities are much more in the property rather than the construction where Their education

sphere. Their advice en rating, letting, lease negotiating and project management is highly valued in Belgium,

Is nightly varied in Beigium, Linxembourg, the Nether-lands, France and Germany. When the Standard Chart-ered Bank acquired and altered the fermer Canadian Embassy building in Paris, no fewer than three firms of UK chartered surveyors were involved: one acted for the vendors, one for the buyers, and the third were quantity surveyors and project manag-ers for the alterations.

The sale of the headquart-ers of Germany's largest shipping company, together with its lease-back from an insur-

European Construction Federation (FIEC) forecasts a "consolidation of construction activity at the 1983 level." Slight improvements

tinue to fall.

Housebuiding, which kent
the industry out of the damps
in Britain, Germany and Belgium in 1983, is expected to rise in Belgium, fall in Britain and stabilise in Ger-many. For non-residential buildings, the -2.9 per cent slump recorded in 1983 is expected to stop. For public works, the 4.2 per cent rection in 1983 will slow to

SOUTH EAST ASIA

Moving into high gear

the Association of Asian Nations countries (ASEAN) seems to have been in the best position to ride out the difficult economic environ-Many countries in the region

were worried 12 months ago when they saw their growth rates fall from the 10 per cent of the heady 1970s to about 5 or 6 per cent. But everything is relative: the industrialised world was stagnating at about 2 per cent growth at the time.

economic problems construction, as in any other part of the world, but the base level of activity remained fairly high and the turn of this year has shown good trends for the industry in 1984 and beyond.

nised as one of the safest markets for construction in-dustry, and one of great hope for the future.

The World Bank poured nearly US\$2,400m into ASEAN

projects in the past financial year (up to June 1983), about half of which went to cover 12 projects in Indonesia. The next argest ASEAN borrower was the Philippines, then Thailand and finally Malaysia. About the same time approximately US\$1bn has been agreed in soft loans from Japan, and many other countries have bilateral agreements.

The Asian Bank (ADB) Development put nearly Bank (ADB) put nearly U\$\$900m into the same four countries in 1982. ADB funds went towards development projects totalling U\$\$2 nn in the Philippines, U\$\$1.480n m Thailand, and U\$\$150m in Malaysia.

The bank estimates that 70 per cent of these funds end up in the construction industry's

coffers.
Looking first at Singapore, most people's gateway to the region, the construction industry has shown a remarkable, but locally not unusual, growth rate of 31 per cent in the first half of 1983.

Similar figures were achieved the year before. As well as a very active private sector, Singapore's government has an extensive programme of construc-

tensive programme or construc-tion work.

Plans to build a further 100,000 units of public heusing by 1985 have been speeded up; and civil work has begun en the US\$2.25bn mass rapid transport project, with the Japanese and French taking a good share.

Private sector work, covered by \$\$3bn worth of building plans approved last year, in-cludes large projects of presti-gious hotels, offices and shopping centres.

Across the causeway in Malaysia, the situation was

Malaysia, the situation was bleak for a year or so until 1983 saw the commodity price slide reversed. A trade surplus is forecast for 1984, for the first time in a few years, of M\$2.5bn and the construction industry is expected to achieve a 92 revents.

a 9.2 per cent growth.

Private construction activity increased to a high level last year, particularly around Kuala Lumpur, because of improved commercial lending.

The main impeuts is non-residential work, particularly botels as they received investment incentives in 1982. The upswing is expected to continue through to 1986. ance company, was also handled by British profes-

Europe's construction dustries are hopeful of a further slackening of the re-cession in 1984, if not its end. cession in 1984, if not its end.
Industrial output in the EEC,
which was down in the last
six months of 1982, rose—
albeit slowly—in 1983 and the
inflation rates were falling.
Unemployment is still rising—

but at a slower rate.

In 1983, the output of the construction industries of Denmark, Italy, France, Germany, the Netherlanda, Belgium and Great Britain was done 13 pear cent on the pregium and Great Eritain was done 1.3 per cent on the pre-vious year—a depressing statistic, but not as gloomy as the -4.6 per cent and -3.6 per cent recorded in the previous two years. For 1984, the International

may take place again in Britain and Germany, and possibly in Belgium and the Netherlands as well—but censtruction activity elsewhere in Europe will continue to fall.

only -1.1 per cent, the Federation predicts.

Mira Bar-Hillel

The Government will become a big spender again this year with construction of two deep sea ports at Songkhla and Phuket, Thailand's first cable stayed bridge, a multi-kilometre bridge across Songkhla Lake, a petroshemical convolve and true petrochemical complex and two major ports en the Eastern Sea-board industrial area. Indonesia has had a rough 18

months or so as it depends largely on its oil for foreign exchange earnings, Work in progress includes port construction, downstream

industrial development, a new US\$317m power project, irriga-tion work, road projects and many rural development Finally, the tiny of sultanate of Brunei, with the highest per

capita income in the world, expected to spend about US\$300m on construction we next year. But nothing could compare in scale or grandeur to the new palace/government centre being completed there this year—at an undisclosed

Nicola Carr

Foreign contractors

ACCORDING TO the organisers, total value of the ArabBuild exhibition and reported in conference to be held in Bah-rain in November, the slowdown in the Arab construction market has been "much exaggerated," and is due primarily to the completion of infrastructure projects in some of the major cities such as Jeddah and Dubal."

It points out that completely new cities continue to be built, and that in some of the region's older markets where most of the infrastructure has been compieted there is a secondary construction boom.

There is certainly something in what ArabBuild's promoters say. Oil glut or not, it was in-evitable that there would be an eventual slowdown in business after the years of new found oil wealth.

The downturn in oil revenues has concentrated the minds of the region's planners and en-couraged an increasingly tough-minded attitude towards construction projects and the role of foreign companies.

A major development in the construction market is the grow-

ing importance of Arab con-ing importance of Arab con-tractors and consultants. In a book entitled The Arab Con-struction Industry published this year by Croom Helm, a leading Arab technology and consultant Dr Antoine Zahlan argues for in-creased local participation in the building industry to improve the transfer of Western exper-

He calculates that local inputs accounted for only 25 per cent of the total inputs to the \$600bn worth of construction projects carried out in the Arab world in the past two decades. Gulf governments have been particularly keen to bolster local companies and have introduced tegislation that makes it more and more desirable for foreign companies to enter into joint ventures with indigenous

Figures on new contract awards since the extraordinary boom years of 1980 and 1981.

reflect the impact of lower oil revenues and the Gulf war.

From a level of \$74bn in 1981 the value of new contracts in the Middle East plummeted to \$446bn in 1982 according to Middle East Contracts: Directory and Analysis (MECDA). In the first half of 1983 the

still in demand

total value of new contracts reported in the Middle East Economic Digest (MEED) dropped to \$23.76n from \$27.66n in the same period of 1862.

Saudi Arabia once again led the field in 1983, although MEED estimates that its awards fell substantially for the year as a whole to \$17.66n compared with \$27.16n in 1982. Despite Iraq's continuing battles with Iran and its precarious financial position, it still managed to take second place with a MEED estimate of \$8.70n worth of new contracts.

Contractors in Iraq and Libya experienced severe payments problems in 1983, and many have been forced to accept deferred payment deals and oil barter arrangements. Payment delays caused headaches for contractors in a number of other states, notably the United

Arab Emirates.
The mechanics of construc tion financing has become of ever pressing concern to the region's contractors and bankers alike, and in January the Arab Bankers' Association and Bovis International held a three-day seminar in Abu Dhabi on bonds, guarantees and other aspects of the banker-contractor relation-

Rewarding

For all its recent problems, the Middle East market will continue to be rewarding for the foreign contractor and consultant. There are tuntalising prospects in sight when the Gulf war is over.

In remarkably confident mood, Libya last November

signed what is said to be the largest ever contract in the Middle East Worth \$3.3bn, the contract awarded to Dong Ah Construction Industrial Company of South Korea is for a "man-made river" to carry water to the country's coastal

city.

The Gulf states will continue

The Guir states will comme to provide a steady stream of major projects:

Algeria is an increasingly interesting part of the market, with rapid and sustained growth it has made a point of linking contract awards with gas sales and this has worked French and the Italians.

Susamah Tarbush Business Editor, The Middle East

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